



# भारत का राजपत्र

## The Gazette of India

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इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके)  
(Separate paging is given to this Part in order that it may be filed as a separate compilation)

### भाग III—खण्ड 2

### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचना और नोटिस  
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1—387GI/86

**APPLICATION FOR PATENTS FILED AT THE HEAD  
OFFICE, 214, ACHARYA JAGADISH BOSE ROAD,  
CALCUTTA-700 017**

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

*20th November, 1986*

844/Cal/86. The Budd Company. Seal construction for divided rim wheel assembly.

845/Cal/86. PHB Wescrhitte Aktiengesellschaft. Mobile Belt conveyor.

846/Cal/86. Franz WELZ Internationale Transporte Gesellschaft mit beschränkter Haftung. Transportable refrigerating container.

*21st November, 1986*

847/Cal/86. Vsesojuzny Gosudarstvenny Institut Nauchno-issledovatel'skikh i Proektnykh Rabot Ogneupornoj Promyshlennosti. Tuyere for flame jet guniting of a metallurgical unit.

848/Cal/86. Vsesojuzny Gosudarstvenny Institut Nauchno-issledovatel'skikh i Proektnykh Rabot Ogneupornoj Promyshlennosti. Method and multiple-nozzle tuyere for guniting a metallurgical unit.

849/Cal/86. PHB Wescrhitte AG. The device for the handling of heavy substances.

*24th November, 1986*

850/Cal/86. Siemens Aktiengesellschaft. A mechanical logic device.

851/Cal/86. Cetus Corporation. Cysteine-depleted muteins of biologically active proteins [Divisional date 19th October, 1983].

**APPLICATION FOR PATENTS FILED AT THE PATENT  
OFFICE BRANCH, MUNICIPAL MARKET BUILDING,  
III<sup>RD</sup> FLOOR, KAROL BAGH, NEW DELHI-5**

*3rd November, 1986*

967/Del/86. Imperial Chemical Industries, PLC. A process for the production of methanol. (Convention date 13th Dec., 1982 & 4th August, 1983) (U.K.) [Divisional date 29th November, 1983].

968/Del/86. Imperial Chemical Industries, PLC. A process for the production of methanol. (Conven-

tion date 13th Dec., 1982 & 4th August, 1983) (U.K.) [Divisional date 29th November, 1983].

969/Del/86. The Secretary of State for Defence in her Britannic Majesty's Govt. of the United Kingdom. Liquid Crystal device. (Convention date 24th October, 1983) (U.K.) [Divisional date 28th January, 1984].

*4th November, 1986*

970/Del/86. Nodest Vei A/s., Method and apparatus for foaming of bitumen.

*5th November, 1986*

971/Del/86. Council of Scientific and Industrial Research. Multifuel domestic chulha for efficient burning of different types of solid fuels.

972/Del/86. Council of Scientific and Industrial Research. Electronic digital maximum demand indicator.

973/Del/86. Council of Scientific and Industrial Research. A process for the preparation of hard butter having reduced 9,10-dihydroxy stearic acid content from sal fat useful as cocoa butter extender.

974/Del/86. Exxon Chemical Patents, INC. Supported polymerization catalyst.

975/Del/86. Shell Internationale Research Maatschappij B.V., Removal of catalyst remnants from ethene/copolymers.

976/Del/86. UOP INC., Product recovery in a dehydrocyclodimerization process.

977/Del/86. Ashok Kumar Gupta, Timer switch.

*6th November, 1986*

978/Del/86. Sushma Gupta, Gravity lock.

979/Del/86. Alcan International Limited, Resistance welding of aluminium. (Convention date 14th November, 85) (U.K.).

*7th November, 1986*

980/Del/86. Earth Chemical Company, Ltd., Composition for attracting flies.

981/Del/86. Genetics Institute, INC., Improved yeast strains.

**APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATE,  
3RD FLOOR, SUN MILL COMPOUND, LOWER PAREL (WEST), BOMBAY-400 013.  
21-10-1986**

297/BOM/86	Austin Simoens. 24-10-1986	An outdoor display hoarding.
298/BOM/1986	Prakash Krishna Ratnaparkhi. 27-10-1986	Cooling box for personal computers.
299/BOM/1986	Dhananjay Vasant Dake. 29-10-1986	Adjustable panel connectors.
300/BOM/1986	Hindustan Lever Limited. 1st Nov., 1985 & 22nd May, 1986 Great Britain. 30-10-1986	Detergent compositions, components therefor, and processes for their preparation.
301/BOM/1986	Rameshchandra I. Bhatt	The recovery of silver from exhausted bleachfix and fixer solution individually or together.
302/BOM/1986	Seikosha Co. Ltd.	Paper feeding mechanism for printer.

## COMPLETE SPECIFICATION ACCEPTED

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CLASS : 172-C<sub>3</sub>. 158614

Int. Cl. D 01 g 9/16.

## METHOD OF PROCESSING FIBRES FOR SPINNING AND APPARATUS THEREFOR.

Applicant : TRUTZSCHLER GMBH & CO. KG., DUVENSTRASSE 82-92, D-4050 MONCHENGLADBACH 3, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. FERDINAND LEIFELD, 2. FRITZ HOSEL.

Application No. 341/Cal/83 filed March 22, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims

A method of processing fibres for spinning comprising the step of supplying the fibres to a fibre processing machine of a spinning plant including a fibre storing apparatus connected downstream of the fibre processing machine and receiving processed fibres therefrom, said fibre processing machine including a feed roller supplying fibre thereto and an opening roller, the method being characterized by the steps of—

- continuously rotating the feed roller and the opening roller, by respective regulatable drive means,
- generating a measuring valve representing fibre quantities present in the storing apparatus, from moment to moment;
- generating also an analog electric signal representing the said measuring valve;
- supplying said analog electric signal to said respective regulatable drive means of said feed roller and opening roller for varying speeds of rotation of the feed roller and the opening roller in proportion to one another as a function of the fibre quantity present in the storing apparatus.

Compl. Specn. 18 pages.

Drg. 5 sheets.

CLASS : 40-A<sub>1</sub> + 40-F + 88-D.

158615

Int. Cl. : C 10 g 35/00.

## A PROCESS FOR THE PRODUCTION OF HOT REDUCTION GAS HAVING AN OXIDIZING QUALITY OF LESS THAN 10%.

Applicant : LINDE AKTIENGESELLSCHAFT, ABRAHAM-LINCOLN-STRASSE 21 D-6200 WIESBADEN, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. GERHARD RATH, 2. SIEFFRIED MICHEL, 3. DR. ALLAN WATSON.

Application No. 356/Cal/83 filed March 24, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 11 Claims

A process for the production of a hot reduction gas having an oxidizing quality of less than 10%, said oxidizing quality being defined as the ratio of (H<sub>2</sub>O + CO<sub>2</sub>) :

(H<sub>2</sub>O + CO<sub>2</sub> + H<sub>2</sub> + CO) comprising catalytically reforming a starting material containing light hydrocarbons such as herein described in the presence of steam in a reforming zone indirectly heated by combustion gases introduced into a reformer, characterised by withdrawing the reformed gas, obtained at temperatures of above about 900°C, cooling the withdrawn gas to a temperature sufficiently low to condense H<sub>2</sub>O therein; separating resultant condensate; and reheating resultant H<sub>2</sub>O depleted gas at least partially in indirect heat exchange with waste heat from the reforming step.

Compl. Specn. 15 pages.

Drg. 5 sheets.

CLASS : 144-E<sub>a</sub>.

158616

Int. Cl. : C09 C 1/00.

## A PROCESS FOR THE PREPARATION OF NACREOUS PIGMENTS BASED ON MICA FLAKES COATED WITH METAL OXIDES.

Applicant : MERCK PATENT GESELLSCHAFT MIT BESCHRANKTER HAFTUNG, FRANKFURTER STRASSE 250, D-6100 DARMSTADT, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. DR. KLAUS AMBROSIOUS, 2. DR. REINER ESSELBORN.

Application No. 368/Cal/83 filed March 26, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims

Process for preparing nacreous pigments based on mica flakes coated with metal oxides comprising mixing mica in an aqueous suspension at pH value within the range of from 0.5 to 5.0 with a solution of titanium and zirconium salts and then washing, drying and calcining the coated mica flakes at a temperature of from 500 to 1000°C, characterized in that in the metal salt solution the molar ratio of titanium to zirconium is 15 : 1 to 150 : 1 and wherein the metal salt solutions optionally contain further conventional coloured or colourless metal ions.

Compl. Specn. 9 pages.

Drg. Nil.

CLASS : 40F.

158617

Int. Cl. : B 01 j 1/04.

**A METHOD OF REGENERATING PARTICULATE ANION AND CATION ION EXCHANGE MATERIALS.**

Applicant : NORTHERN ENGINEERING INDUSTRIES PLC, OF NEI HOUSE, REGENT CENTRE, NEWCASTLE UPON TYNE, ENGLAND, NE3 3SB.

Inventors : JAMES RATCLIFFE EMMETT.

Application No. 377/Cal/83 filed March 30, 1983.

Convention dated on 30th March, 1982. (09291/1982) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**3 Claims**

A method of regenerating particulate anion and cation ion exchange materials comprising classifying the materials above a perforate barrier in a separator vessel into an upper anion layer, an intermediate interfacial region and a lower cation layer by passing water upwardly within the vessel, transferring cation material from the vessel through a conduit having an inlet adjacent the barrier and an outlet outside the vessel by passing water into the vessel and allowing flow through the conduit until a major proportion of cation material has passed through said outlet of the conduit, a major proportion of material from the interfacial region has entered the conduit and a major proportion of anion material remains in said separator vessel, detecting an interface in the conduit between materials, isolating said outlet from said inlet in response to detection of said interface, regenerating at least said major proportions of cation and anion materials, reclassifying the regenerated anion material by passing water upwardly there-through to allow contaminant cation material present in the anion material to settle to the bottom of the anion material, removing material from the bottom of the anion material to remove settled contaminant cation material, said removed material being isolated from the regenerated materials and remixing the regenerated materials.

Compl. Specn. 18 pages.

Drg. 2 sheets.

CLASS : 69-O.

158618

Int. : Cl. : H 01 h 9/000.

**AN ELECTRICAL DEVICE WITH A BASE PLATE.**

Applicant : SIEMENS AKTIENGESellschaft, OF BERLIN AND MUNICH, WEST GERMANY.

Inventors : 1. WILFRIED KLIEMT, 2. MANFRED KRONES.

Application No. 402/Cal/83 filed April 6, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**8 Claims**

An electrical device such as switching device comprising individual electrical component parts which are secured on a base plate, wherein the base plate is divided into parts by dividers (5) which extend transversely of the planes to the extent of said individual component parts and wherein a part of the base plate has pins for use in locating individual component parts of the device on the base plate.

Compl. Specn. 8 pages.

Drg. 3 Sheets.

CLASS : 48-D<sub>a</sub>.

158619

Int. Cl. : H 02 g 3/00.

**MEANS FOR INSTALLING A CABLE WITHIN A CONDUIT.**

Applicant : JEUMONT-SCHNEIDER, OF 31-32, QUI DE L'ON BOUTON 92811 PUTEAUX CEDEX, FRANCE.

Inventors : MICHEL LE COMTE.

Application No. 408/Cal/83 filed April 7, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**8 Claims**

Means for installing a cable of considerable length within a conduit, with the help of a hauling line, under the most favourable possible conditions, so as to prevent friction between the cable and the inner surface of said conduit, and, in particular, with reduction of tractive force applied to said cable, whereby the cable, for its full length, is to be fastened to the hauling line at locations whose positions shall be determined according to resistance to tension affecting sections of the cable demarcated in this manner, so that, with the cable being somewhat slack, each section of the cable shall be unaffected by stress affecting preceding sections, in order that tractive force applied to successive sections of the cable may be distributed while the cable is being installed, with said means being characterized by the fact that it shall consist of mechanical fasteners which shall grip the hauling line (4), such as clamps outfitted with two components constituting a vise, within which it shall be possible to insert the cable (2), whereby at least one of said components shall be jointed so as to allow gripping or releasing of the cable as desired, with the aforementioned fasteners being designed so that it shall be possible to withdraw them from the conduit after installation of the aforementioned cable.

Compl. Specn. 15 pages.

Drg. 2 sheets.

CLASS : 128-G.

158620

Int. Cl. : A 61 f 1/22.

**HEART VALVE PROSTHESIS WITH DOG-LEG PIVOT.**

Applicant : HEMEX, INC. OF 1300 EAST ANDERSON LANE, AUSTIN, TEXAS, UNITED STATES OF AMERICA.

Inventors : JEROME JOHN KLAUITTER.

Application No. 428/Cal/83 filed April 13, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**10 Claims**

A heart valve prosthesis comprising an annular valve body 13 having an interior wall 16 forming a central passageway 17 therethrough of generally circular cross section, a pair of leaflets 15 proportioned to block blood flow through said passageway when said leaflets are disposed in a closed position, each of said leaflets having an arcuate major edge 23 which abuts said valve body in the closed position and a substantially planar minor edge 25, and means 33, 35 which pivotably interconnects each of said leaflets and said valve body for relative pivotal movement between the closed position and an open position, the invention characterized in that said interconnecting means comprises pairs of depressions 33 formed in generally opposite locations in said interior wall and pairs of guides 35 extending laterally from each of said leaflets, said depressions each having an upstream section 45 which is aligned substantially parallel to the centerline of said central passageway and a downstream section 47 connected to said upstream section that angles outward from the point of connection.

Compl. Specn. 18 pages.

Drg. 2 sheets.

CLASS : 205B + D.

158621

Int. Cl. : B64 C 25/36.

Title : AN IMPROVED AIR-CRAFT LANDING WHEEL.

Applicant & Inventor : PAYNADATH THOMAS JOY,  
GROUND FLOOR, 1ST BUILDING, GAMBER'S ESTATE,  
S. V. ROAD, MALAD (WEST), BOMBAY-400 064, INDIA.

Application No. 344/Bom/83 filed Nov. 1, 1983.

Complete after provisional left on Dec. 26th 1984.

Appropriate office for opposition proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Bombay Branch.

## 5 Claims

An improved air-craft landing wheel, comprising curved blades or vanes on the shaft or axle on one or both sides for rotating the wheel at or near the speed of the air-craft prior to landing.

Compl. Specn. 5 pages.

Drg. 1 sheet.

Prov. Specn. 3 pages.

Drg. Nil.

CLASS : 27 1.

158622

Int. Cl. : E 04 f 21/00.

A SAND FACE PLASTERING MACHINE.

Applicants & Inventors : PARESHBHAI POPATBHAI PATEL, BHIKHUBHAI KALYANBHAI GELANI AND MANUBHAI SAVJIBHAI PATEL, TRADING AS M/S. SUPER MANUFACTURE CO., 40, JAYGUJARAT SAHAKARI AUDYOGIK VASAHAT, AJOD DAIRY ROAD, RAKHIAL, AHMEDABAD-380 023, GUJARAT, INDIA.

Application No. 18/Bom/1984, filed Jan., 20, 1984.

Complete after provisional left Dec. 26, 1984.

Appropriate office for opposition proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Bombay Branch.

## 10 Claims

A sand face plastering machine for splashing the sand cement mortar mixture on the outside wall surfaces of a building, comprising an egg shaped drum (1) forming a housing, the said drum having a square shaped opening on its curved side surface at one end and also having two corresponding holes (13) on its either sides at the middle, a screen assembly being mounted inside the said drum and between the said two corresponding holes, a square metal pipe (11) being adjustably provided just near the said screen assembly and particularly in touching contact with the tips or edges of the slotted strip blades (5) of the said screen assembly, so as to make the said blades press against the said square metal pipe and move, thereby attaining a requisite tension while they are being rotated fast, the said screen assembly having a solid cylindrical rubber rod (4), with two circumferential grooves (16) at its extremities and a plurality of radial slots (14) normal to its cylindrical surface to house the said slotted strip blades respectively, the said rubber rod having a through square hole for housing a square shaped shaft (3) inside and being rotatably fitted in the said holes (13) provided on either sides of the said drum.

Compl. Specn. 10 pages.

Drg. 1 sheet.

Prov. Specn. 2 pages.

Drg. Nil.

CLASS : 42 C.

158623

Int. Cl. : A 24 d 1/04.

IMPROVED TOBACCO SMOKE FILTERS.

Applicant & Inventor : JOHN MICHAEL PEREIRA,  
KRIPA BLDG., FLAT NO. 24 B, NEAR MT. MARY'S

STEPS, ST. JOHN BAPTIST ROAD, BANDRA (W),  
BOMBAY-400 050.

Application No. 24/Bom/1984 filed on Jan. 27, 1984.

Appropriate office for opposition proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Bombay Branch.

## 4 Claims

A set of 3 tobacco smoke filters for cigarette, cigar, bidis or the like, each comprising (a) holder (b) orifice, (c) extractor chamber and (d) mouth piece, wherein the extractor chamber is fitted with a holder from the top which fits inside it, and the orifice having 3 to 5 tiny holes of varying size between 1/5 mm to 1/4 mm in diameter is fitted inside the extractor chamber on the 2 supporting rings inside, whereby the orifice filters 10% nicotine, tar and other harmful substances of smoke, the extractor chamber has a hole on its walls of varying size between 1/4 mm to 1/2 mm in diameter in the 3 tobacco smoke filters for natural air to enter and dilute the concentration of smoke and carbon monoxide upto 30% in the first tobacco smoke filter wherein the hole on the walls of the extractor chamber is 1/4 mm in diameter and upto 60% in the second tobacco smoke filter wherein the hole on the walls of the extractor chamber is 1/2 mm in diameter and upto 90% in the third tobacco smoke filter wherein the hole on the walls of the extractor chamber is 1/2 mm in diameter and the mouth piece is attached to the extractor chamber from below, which has a round tubular rod which fits firmly inside the strips on the extractor chambers, the rod has 2 similar sloping cuts on the outer side opposite each other, each cut on the rod measuring 1/4 mm × 1/4 mm × 1/4 mm and 1/4 mm deep on the rod and that the mouth piece fits firmly on a strip along the inner walls of the extractor chamber allowing smoke to pass through the sloping 2 cuts whereby nicotine, tar and other harmful substances are filtered upto 20% in the first tobacco smoke filter, upto 50% in the second tobacco smoke filter and upto 80% in the third tobacco smoke filter whereby the resultant smoke free from nicotine, tar, carbon monoxide and other harmful substances of smoke upto 30% in the first tobacco smoke filter, upto 60% in the second tobacco smoke filter and upto 90% in the third tobacco smoke filter are removed and the resultant smoke free from injurious substances as stated herein above enters the square shaped openings inside the mouth piece and travels further down the hollow openings of the mouth piece, terminating at the lower tip of the mouth piece.

Compl. Specn. 14 pages.

Drg. 1 sheet.

CLASS : 69 B.

158624

Int. Cl. H 01 H 83/00.

ELECTRONIC OVER/UNDER VOLTAGE PROTECTION SWITCH.

Applicants & Inventor : SUNIL KUMAR COUGNER  
JAGDISH PRASAD & BIMAL KUMAR COUGNER,  
PARTNERS OF ECLAIR ELECTRONICS, 2/305 ASHIR-  
WAD HEAVY INDUSTRIAL ESTATE, RAM MANDIR  
ROAD, GOREGAON (WEST), BOMBAY-400 062, INDIA.

Application No. 26/Bom/1984 filed Jan. 28, 1984.

Complete after provisional left Jan. 11, 1985.

Appropriate office for opposition proceedings (Rule 4,  
Patents Rules, 1972) Patent Office, Bombay Branch.

## 2 Claims

An electronic over/under voltage protection switch comprises a combination of : (i) a power supply circuit; (ii) a current trip circuit; (iii) a voltage trip circuit and (iv) a mains circuit and said protection switch comprising of 35 resistors (R-1 to R-35); 13-capacitors (C-1 to C-13); 3-pre-set variable resistors (RV-1 to RV-3); 19-diodes (D-1 to D-19); 2-Zeners (Z-1 and Z-2); 2-IC's (IC-1 and IC-2); 6-

Transistors (T-1 to T-6); 3-LED-1 to LED-3); 2-Transformers (Tr-1 and Tr-2); and one Logic Module connected in the manner indicated in the circuit diagram of Figure-1 of the drawings accompanying the provisional specification.

Compl. Specn. 5 pages.

Drg. Nil.

Provisional specification 4 pages.

Drg 1 sheet.

CLASS : 13A + 101A.  
Int. Cl. : E 01 g 5/00.

158625

Title : NOVEL LINING FOR WATER FRONTS, ROCK/SOIL SLOPES, OTHER NATURAL FORMATIONS OF MAN-MADE CONSTRUCTIONS AND THE LIKE.

Applicants : CEMINDIA COMPANY LTD., APEEJAY HOUSE, DINSHAW VACHHA ROAD, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventor : DIGAMBER JANARDAN KETKAR.

Application No. 39/Bom/1984 filed Feb. 13, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 17 Claims

A novel lining to be provided on water fronts, rock/soil slopes, other natural formations or man-made constructions and the like which consists of a flexible mat-like formwork made of two or more layers of fabric with ties-spacers at specified distances to control and ensure uniformity of thickness and proper fit along the contour of the surface to be lined.

Compl. Specn. 11 pages.

Drg 5 sheets.

CLASS : 103.

158626

Int. Cl. C 23 g 1/00.

PROCESS FOR MAKING A SOLUTION FOR DIPPING RAZOR BLADES TO RETAIN THEIR SHARPENED QUALITY.

Applicant & Inventor : MANUBHAI GORDHANDAS, 230/8, PATEL BUILDING, SION(E), BOMBAY-400 020, MAHARASHTRA, INDIA.

Application No. 55/Bom/1984 filed on March 5, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 2 Claims

A process for making a solution for dipping razor blades to retain their sharpened quality comprising : dissolving 25 to 90 gms. copper sulphate per 100 cc. in distilled water at 40 to 80 degree C. along with 2 to 5 cms. of sodium chloride.

Compl. Specn. 4 pages.

Drg Nil.

CLASS : 129 Q.

158627

Int. Cl. : B 23 K 9/00.

AN IMPROVED METHOD OF SHIELDED METAL-ARC WELDING OR GAS SHIELDED METAL-ARC WELDING RESULTING IN THE REDUCTION OF HYDROGEN PICK-UP IN WELDMENTS AND WELDMENTS OBTAINED THEREBY.

Applicants & Inventor : DIPAK CHANDIRAMANI, 3/1, MAITRI PARK, CHEMBUR, BOMBAY-400 071. INDIA.

Application No. 62/Bom/1984 filed March 13, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 3 Claims

An improved method of shielded metal-arc welding or gas shielded metal-arc welding resulting in the reduction of hydrogen pick-up in weldments, the improvement being that an active gas such as Freon-12 is supplied to the molten weld-pool along with the shielding gas, the active gas being capable of dissociating into its elements at the temperature of the molten weldpool and forming stable compounds with hydrogen which compounds are insoluble in the molten weld pool thereby reducing entry and dissolution of hydrogen in the molten weldpool and presence of hydrogen in the weldments.

Complete Specn. 9 pages.

Drg. 1 sheet.

CLASS : 5B.

158628

Int. Cl. : A 01 g 9/02.

#### AN IMPROVED PLANT POT.

Applicant & Inventor : SUDHIR DIGAMBAR APTE. PROP. APTE PLASTI GLASS INDUSTRIES, 475/17, SADAR BAZAR, SATARA 415001, MAHARASHTRA STATE, INDIA.

Application No. 80/Bom/1984 filed March 30, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 1 Claim

An improved plant pot comprising a hollow pot provided with an external collar bending over and downwards, the said pot, the said collar extending upto nearly half the height; their being provided a separate projecting edge on the outer surface of the bottom portion having plurality of holes, the said pot in turn fits in another receptacle having corresponding size or shape, the vertical wall of the said second receptacle is not made to touch the upper external bent collar but there is left sufficient space to give attractive look and provide a gap for evaporation of water collected in the said second receptacle.

Compl. Specn. 4 pages.

Drg. 1 sheet.

CLASS : 134 A.

Int. Cl. : E 05 B65/00.

Title : A TAMPER PROOF LOCKING DEVICE FOR VEHICLE WHEELS AND THE VEHICLE WHEEL COMPRISING THE SAME.

Applicant & Inventor : KERSI HORMUSJI KADODWALLA, AN INDIAN NATIONAL OF A-13, MAZDOCK APARTMENT, SEVEN BUNGALOWS, ANDHERI (WEST) BOMBAY-400 061.

Application o. 93/Bom/84 filed on April 4, 1984.

Complete Specification after Provisional left on November 15, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 6 Claims

A tamper proof locking device for vehicle wheels comprising an inner body having a threaded hole and nut configuration at one end and a pocket provided with circumferential groove/s at the other end; an hollow outer body having circular opening at one end covering the said inner body and having an inward collar at the other end resting over the said inner body; a lock barrel alongwith a key having a cylindrical portion provided with spring loaded lever/s in a slot and a collar at one end, the said cylindrical portion passing through the said inward collar of the outer body and being accommodated in the said pocket of the inner body and

the said collar of the lock barrel resting over the said inward collar of the outer body; arrangement being such that when the key is inserted in the lock barrel the said spring loaded lever/s are pressed to come in line with the surface of the cylindrical portion of the lock barrel allowing the lock barrel to move forward and backward in the said pocket of the inner body and when the key is taken out the said lever/s project out from the surface of the cylindrical portion of the lock barrel and engage in the said groove/s in the pocket of the inner body thus preventing any forward and backward movement of the lock barrel but at the same allow it to rotate through 360 degrees.

Provisional Specification 5 pages.

Drg. 2 sheets.

Complete Specification 9 pages.

Drg. 2 sheets.

CLASS : 84 C<sub>1</sub>.

158630

Int. Cl. : C 10 I 5/04, 9/02.

A PROCESS OF CHEMICAL TREATMENT OF LIGNO-CELLULOSIC BIOMASS TO ACHIEVE FASTER DRYING UPTO LOW MOISTURE CONTENT AND EASY PULVERIZATION.

Applicant & Inventor : NANDAN MOTILAL BHANDARI, JAY VARDHAMAN, APARTMENTS, APARTMENT NO. 11, BIBVEWADI, PUNE-411 037, MAHARASHTRA, INDIA.

Application No. 236/Bom/1984 filed Aug. 27, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 1 Claim

A process to reduce moisture holding capacity, improve drying rates obtain easy pulverisability and easy densification of lignocellulosic or cellulosic biomass by treating with hydrochloric acid of concentration between 0.5 to 15%.

Compl. Specn. 5 pages.

Drg. Nil.

CLASS : 170 B + D.

158631

Int. Cl. : C 11 d 1/00.

A LIQUID DETERGENT COMPOSITION HAVING HIGH FOAMING CHARACTERISTICS.

Applicants : HINDUSTAN LEVER LTD. HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION, BOMBAY 400 020, MAHARASHTRA, INDIA.

Inventors : (1) DAVID JOHN EDGE, (2) APPAYA RAGHUNATH NAIK & (3) MELVIN SCOTT.

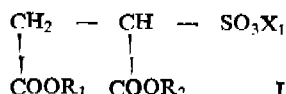
Application No. 258/Bom/1983 filed Nov. 10, 1983.

U. K. Convention date Nov. 16, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

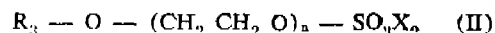
#### 9 Claims

A liquid detergent composition having 5 to 60% by weight of detergent active compound and having high foaming characteristics in the form of a stable aqueous solution comprising (a) at least 2% by weight based on the weight of composition of a water-soluble salt of a dialkyl-ester of sulphosuccinic acid of the formula I :



wherein each of R<sub>1</sub> and R<sub>2</sub>, which are the same or different, represent a straight-chain or branched-chain alkyl group having from 3 to 12 carbon atoms, preferably from 4 to 10 carbon atoms and more preferably from 6 to 8 carbon atoms,

and X<sub>1</sub> represents a solubilising cation, that is to say, any cation yielding a salt of the formula I sufficiently soluble to be detergent-active, (b) a C<sub>6</sub>-C<sub>12</sub> alkylbenzene sulphonate and/or a C<sub>12</sub>-C<sub>18</sub> secondary alkyl sulphonate in an amount of atleast 1% based on the total weight of composition and (c) a C<sub>10</sub>-C<sub>18</sub> alkylether sulphate preferably of the general formula II



wherein R<sub>2</sub> is a linear or branched C<sub>10</sub>-C<sub>18</sub> alkyl group, X<sub>2</sub> is a solubilising cation, and n, the degree of ethoxylation, is from 1 to 12, and more especially 1 to 8 in an amount of atleast 1% based on the total weight of the composition.

Compl. Specn. 20 pages.

Drg. Nil.

CLASS : 170 B + D.

158632

Int. Cl. : C 11 d 1/00.

A LIQUID DETERGENT COMPOSITION HAVING IMPROVED FOAMING CHARACTERISTICS.

Applicants : HINDUSTAN LEVER LTD. HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION, BOMBAY 400 020, MAHARASHTRA, INDIA.

Inventors : (1) DAVID JOHN EDGE, (2) APPAYA RAGHUNATH NAIK & (3) MELVIN SCOTT.

Application No. 259/Bom/1983 filed Nov. 10, 1983.

U. K. Convention date Nov. 16, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

#### 11 Claims

A liquid detergent composition having improved foaming characteristics, in the form of a stable aqueous solution containing from 2% to 60% by weight of an active detergent mixture comprising :

(a) at least 5% by weight of a linear C<sub>10</sub> to C<sub>18</sub> alkylbenzene sulphonate substantially free of material of other alkyl chain length and having a C<sub>12</sub> content not more than 15% by weight if its 2 phenyl isomer content is not less than 30% by weight of having a C<sub>12</sub> content upto 30% by weight if its 2 phenyl isomer content is less than 30% by weight in an amount of atleast 2% by weight of the composition and

(b) at least 2% by weight of a C<sub>6</sub> to C<sub>12</sub> primary alkyl ether sulphate of the general formula I :



Wherein R<sub>1</sub> is a linear or branched alkyl group having from 10 to 18 carbon atoms, X is any solubilising cation, and n, the average degree of ethoxylation, is from 1 to 12, especially 1 to 8 containing not more than 20% by weight of C<sub>14</sub> to C<sub>16</sub> chain length material and having an average ethoxylation of 1 to 12 in an amount of atleast 1% by weight, the ratio of components (a) to (b) being within the range of 8 : 1 to 0.5 : 1 and the said composition being substantially free and alkyl benzene sulphonates and alkyl ether sulphates other than those defined under (a) and (b) above.

Compl. Specn. 21 pages.

Drg. Nil.

CLASS : 36A<sub>1</sub>.

158633

Int. Cl. : F04 D 1/00.

Title : CENTRIFUGAL VORTEX PUMP.

Applicant & Inventor : NIRMAL PANNALAL, C/O. PANNALAL METAL INDUSTRIES, RADORA, BETUL, MADHYA PRADESH INDIA 460 002.

Application No. 363/Bom/1983 filed Nov. 17, 1983.

Complete after Prov. left Oct. 22, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 13 Claims

A centrifugal vortex pump comprising a shaft mounted revolvable elongate impeller having plurality of radially extending co-axial impeller blades, a pump housing having conically tapered interior with a plurality of helically curved ridges originating from walls of said pump housing and projecting into cavity of said pump housing, distal edges of said helical ridges of said pump housing leave a central cylindrical hollow wherein said impeller is centrally disposed, said pump housing having an upper and lower bush housing means wherein collared anti friction bushings reside and receive therein ends of said impeller shaft, one of said bush housing members being removably attached to said pump housing by through-bolt means.

Compl. Specn. 7 pages.

Drg. 2 sheets.

Prov. Specn. 5 pages.

Drg. 4 sheets.

CLASS : 164 A.

158634

Int. Cl. : C 02 c-5/10, C 10 1-3/00.

A PROCESS FOR ISOLATING A BIOGAS PRODUCING MIXED CULTURE FROM ANIMAL EXCRETA, AND PRODUCING BIOGAS FROM NON-EDIBLE OIL SEEDS OR CAKES USING SAID MIXED CULTURE.

Applicants : TATA RESEARCH DEVELOPMENT AND DESIGN CENTRE OF 1, MANGALDAS ROAD, POONA-411 001, MAHARASHTRA, INDIA, A DIVISION OF TATA CONSULTANCY SERVICES WHICH IN TURN IS A DIVISION OF TATA SONS LIMITED, AN INDIAN COMPANY AND DR. KRISHNAMURTHY GOPALA GOLLAKOTA, AN INDIAN NATIONAL OF TATA RESEARCH DEVELOPMENT AND DESIGN CENTRE AFORESAID.

Inventor : DR. KRISHNAMURTHY GOPALA GOLLAKOTA.

Application No. 381/Bom/1983 filed Dec. 3, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 2 Claims

A process for isolating a biogas producing mixed culture from animal excreta, and producing biogas from non-edible oilseeds or cakes using said mixed culture, said process comprising :

- (i) fermenting a slurry of animal excreta such as herein described with water, hereinafter referred to as the first slurry, at ambient temperature and under anaerobic conditions with periodic dilution of said first slurry by periodically replacing said first slurry partly with a first nutrient medium consisting of mineral(s) such as herein described and cellulosic material(s) such as herein described and optionally vitamin(s) such as herein described until said animal excreta is completely removed by dilution to give a second slurry containing a first mixed culture degrading cellulosic material(s) such as herein described to biogas in the presence of mineral(s) such as herein described and optionally vitamin(s) such as herein described;
- (ii) further fermenting said second slurry containing said first mixed culture at ambient temperature and under anaerobic conditions in a second nutrient medium consisting of non-edible oil seeds or cakes such as herein described, cellulosic material(s) such as herein described and water with periodic dilution of said second slurry with said second nutrient medium by periodically replacing said second slurry partly with said second nutrient medium until mineral(s) such as herein described and vitamin(s) such as herein described, if any, in said second slurry is/are completely removed by dilution to give a third slurry containing a second mixed culture degrading a mixture of non-edible oilseeds or cakes such as herein described and cellulosic material(s) such as herein described to biogas;

(iii) further fermenting said third slurry containing said second mixed culture at ambient temperature and under anaerobic conditions in a third nutrient medium consisting of non-edible oil seeds or cakes such as herein described and water with periodic dilution of said third slurry with said third nutrient medium by periodically replacing said third slurry partly with said third nutrient medium until said cellulosic material(s) is/are completely removed by dilution to give a forth slurry containing a final mixed culture degrading non-edible oil seeds or cakes such as herein described to biogas; and

(iv) inoculating a fifth slurry containing non-edible oil seeds or cakes such as herein described in water, with said fourth slurry containing said final mixed culture and allowing said fifth slurry to ferment at room temperature and under anaerobic conditions to produce biogas said fifth slurry being periodically partly replaced by fresh supply thereof.

Complete specification 14 pages, Drawing 1 sheet.

CLASS : 62D + 170B.

158635

Int. Cl. : D06m 13/00, 15/00.

Title : AN AQUEOUS BASED CONCENTRATED LIQUID FABRIC SOFTENING COMPOSITION.

Applicants : HINDUSTAN LEVER LIMITED, 165/166 BACKBAY RECLAMATION, BOMBAY-20 MAHARASHTRA, INDIA.

Inventor : HO TAN TAI.

Application No. 395/Bom/1983 filed Dec. 16, 1983.

U.K. Convention date Dec. 23, 1982

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 7 Claims

An aqueous based concentrated liquid fabric softening composition comprising (i) at least 10% by weight of a known water-insoluble cationic fabric softening agent, (ii) up to 4% of anionic viscosity control agent to maintain the viscosity at less than 150 mPa sec. and (iii) from 0.02% to 0.5% by weight of an electrolyte as herein described characterised in that the nonionic viscosity control agent is an alkylene oxide adduct of a fatty compound selected from fatty amides, fatty alcohols, fatty acids and fatty esters, containing at least 10 carbon atoms and each molecule of the alkylene oxide adduct containing an average of not more than 7 alkylene oxide groups per molecule, and the said composition contains not more than 2.5% by weight of a monohydric alkanol having 1 to 4 carbon atoms in the alkyl group.

Compl. Specn. 22 pages.

Drg. 1 sheet.

CLASS : 62 A<sub>2</sub> + 170 B + D.

158636

Int. Cl. : C 11 d 1/86, 3/02, D06 1 3/16.

A BUILT DETERGENT BLEACH COMPOSITION CONTAINING MANGANESE COMPOUND WHICH DELIVERS MANGANESE IONS IN AQUEOUS SOLUTION.

Applicants : HINDUSTAN LEVER LTD., 165/166 BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventor : JOHN OAKES.

Application No. 396/Bom/83 filed on Dec. 16, 1983.

U. K. Convention date Dec. 17, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 4 Claims

A built detergent bleach composition comprising from 2-50% by weight of a surface active agent, 4-50% by weight of a peroxide compound and a heavy metal compound, characterized in that said heavy metal compound is a manganese compound which delivers manganese (II) ions in aqueous solution in an amount of 0.005-2.5% by weight as manganese (II) metal based on the total composition, and that the composition contains a builder system comprising essentially 10 to 50% by weight of a water-insoluble aluminosilicate cation-exchange material, 3 to 50% by weight of an alkalimetal orthophosphate and/or 1 to 20% by weight of an alkalimetal silicate on the total composition.

Composition specification 16 pages. Drg. Nil.

CLASS : 62 A2 + 170 B. 158637

Int. Cl. : C 11 d 1/86, 3/02, D06 1 3/16.

A BUILT DETERGENT BLEACH COMPOSITION CONTAINING MANGANESE COMPOUND WHICH DELIVERS MANGANESE IONS IN AQUEOUS SOLUTION.

Applicants : HINDUSTAN LEVER LTD., 165/166 BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventor : JOHN OAKES.

Application No. 397/Bom/83 filed on Dec. 16, 1983.

U. K. Convention date Dec. 17, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 6 Claims

A built detergent bleach composition comprising 2-50% by weight of a surface active agent selected from anionic, nonionic, zwitterionic and cationic detergents and mixtures thereof; 4-50% by weight of a peroxide compound, and a heavy metal compound, characterized in that it comprises a manganese compound which delivers manganese (II) ions in aqueous solution in an amount of 0.005 to 2.5% by weight as manganese (II) metal based on the total composition, and 5-89% by weight of a builder mixture comprising essentially a condensed phosphate as herein defined and an alkalimetal orthophosphate in a weight ratio of from 10 : 1 to 1 : 60.

Compl. Specn. 14 pages. Drg. Nil.

CLASS : 129 E + G. 158638

Int. Cl. : F 16 p 3/06.

Title : SAFETY DEVICES FOR PRESSES AND LIKE EQUIPMENT.

Applicant & Inventor ANIL SHANKAR GUPTA, OF POONA PRESSINGS PVT. LTD. S-50 BHOSARI, POONA-411 026, MAHARASHTRA, INDIA.

Applicant No. 22/Bom/1984 filed Jan. 23, 1984.

Complete after provisional filed on 28-3-1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 5 Claims

A safety device for presses and like equipment comprising a main body and a sliding body, wherein the main body is connected to the press body non-moving part of ram) by means of a tie-rod assembly and the sliding body is connected to the moving ram with the help of links, the sliding body being connected to a pivot pin through a slider, said pivot pin projecting out of the main body through a bush being provided with a torsion spring; a lever consisting of arms and flag mounted on the pivot pin, the arrangement 2-387GI/86

being such that upon the downward movement of the moving ram towards the stationary die of the press, the lever moves across the face of the press to remove the hand of the operator of the press accidentally placed between the ram and the die.

Compl. specn. 6 pages.

Drg. 2 sheets.

Provisional specification 3 pages.

Drg. Nil.

CLASS : 201C.

158639

Int. Cl. : C02C 5/00.

Title : A PROCESS FOR BRINGING DOWN THE MERCURY CONTENT OF LIQUID EFFLUENTS FROM A CAUSTIC SODA PLANT WORKING ON MERCURY CATHODE.

Applicant : BALLARPUR INDUSTRIES LIMITED, AN INDIAN COMPANY INCORPORATED AND EXISTING UNDER THE COMPANIES ACT, 1956 OF INDIA HAVING THEIR REGISTERED OFFICE AT BALLARPUR, CHANDRAPUR DISTRICT, MAHARASHTRA, INDIA.

Inventor : VINAYAK VITHOBA SAVANT.

Application No. 199/Bom/1984 filed on July 11, 1984.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 2 Claims

A process for bringing down the Mercury content of the liquid effluents from a Caustic Soda Plant working on Mercury Cathode, comprising decanting the effluent fluid from the plant in settling tanks and allowing the solid matter to settle down, removing the supernatant liquid to a reactor and adjusting the pH between 10 and 12 by adding Sodium Hydroxide or any other alkali or acid as may be required, thereafter adding Sodium Sulphide, Sodium polysulphide and Ferric Chloride to the said liquid, the reaction being carried out at ambient temperatures for not less than two hours, with simultaneous agitation of the reactor contents by passing air-bubbles from a Compressor, the reaction slurry being then filtered using conventional gravity sand filters and the filtrate being then absorbed on a column of Activated Carbon, giving the final stream after the treatment having a Mercury content below 0.01 ppm.

Compl. Specn. 9 pages.

Drg. 1 sheet.

CLASS : 97-F.

158640

Int. Cl. : F 27 d 11/10.

AN ELECTRIC FURNACE INTENDED FOR SMELTING OR HEATING.

Applicant : OUTOKUMPU OY, OF TOOLONKATU 4, SF-00100 HELSINKI 1, FINLAND.

Inventors : 1. MATTI EILAS HONKANIEMI, 2. TEUVO MARKUS HYVARINEN, 3. PAAVO RAUKKO.

Application No. 443/Cal/83 filed April 16, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims

An electric furnace intended for smelting or heating, to which power is fed through electrodes and wherein control and balancing of the power is accomplished to moving the electrodes so as to maintain the achieved equilibrium, characterized in that the furnace is provided with a measuring and control unit for electric quantities, said unit including means for processing the measured quantities so as to calculate trends, with the help of which, in order to maintain the furnace equilibrium, the tips of the electrodes are kept, indivi-

dually, at their original level substantially throughout the process time, and that means are provided for controlling the power of the electric furnace on the basis of the voltage over the electrodes as measured by the measuring and control unit.

Compl. Specn. 14 pages.

Drg. 1 sheet.

CLASS : 78 and 103.

158641

Int. Cl. : B 44 d 1/00.

**A PROCESS OF COATING A WIRE MESH OR NET TO RENDER IT CORROSION RESISTANT AND A CORROSION RESISTANT WIRE MESH OR NET PRODUCED THEREBY.**

Applicant & Inventor : SWAROOP CHANDRA BHANJ DEO, 10, PARK MANSIONS 57A, PARK STREET, CALCUTTA-700 016, WEST BENGAL, INDIA.

Application No. 481/Cal/83 filed April 22, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 10 Claims

A process of coating a wire mesh or net to render it corrosion-resistant comprising the steps of :

- (a) forming a wire mesh or net substrate of desired shape and dimension in a known manner from metallic strands,
- (b) passing the so formed wire mesh/net substrate a bath containing the solution of a thermoplastic material,
- (c) draining the excess solution off the mesh/net surface,
- (d) sprinkling dry thermoplastic material powders on the mesh/net surface soaked with thermoplastic material solution,
- (e) heating the resultant product at a temperature sufficient to drive off the solvents from the surface of the wire mesh/net, and thereafter,
- (f) cooling and washing in a known manner the wire mesh/net for fixing the thermoplastic coating thereon, whereby the mesh/net is rendered corrosion resistant.

Compl. Specn. 7 pages.

Drg. Nil.

CLASS : 67-C.

158642

Int. Cl. : G 05 b 11/00.

**SYSTEM FOR CONTROLLING THE MECHANICAL POSITION OF A CONTROLLED DEVICE.**

Applicant : FISHER CONTROLS INTERNATIONAL, INC., OF THE STATE OF DELAWARE, U.S.A., RESIDING AT 7711 BONHOMME, CLAYTON, MISSOURI 63105, U.S.A.

Inventors : 1. GEORGE WAYNE GASSMAN, 2. GERALD FRANK VARNUM.

Application No. 484/Cal/83 filed April 22, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 10 Claims

A system for controlling the mechanical position of a controlled device in response to an input signal, comprising :

a summing beam for integrating a plurality of forces and for producing a command signal as a function of said integration;

relay means, including motion amplifying means, for controlling the position of said controlled device in response to said command signal;

means applying a force to said summing beam indicative of the position of the said controlled device;

means converting said input signal into an input force and for applying said input force to said summing beam; and

adjustable damping means for applying a force to said summing beam from said motion amplifying means for dynamically controlling movement of said controlled device, said adjustable damping means comprising a variable rate spring that is user adjustable and adjustment of which has substantially no effect on the static characteristics of the system.

Compl. Specn. 16 pages.

Drg. 3 sheets.

CLASS : 188 65-B<sub>1</sub>.

158643

Int. Cl. : C 23 c 17/00.

**FERROUS SHEET STEEL MEMBERS HAVING THEREON CURED, INSULATING PHOSPHATE COATING AND A METHOD FOR PRODUCING THE SAME.**

Applicant : WESTINGHOUSE ELECTRIC CORPORATION OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

Inventors : 1. NORMAN MICHAEL PAVLIK, 2. JOHN SEFKO.

Application No. 510/Cal/83 filed April 27, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 10 Claims

A ferrous sheet steel member preferably for use in magnetic cores utilised in electrical apparatus such as generators, transformers and electric motors, said member having been coated with a cured, insulating phosphate coating characterised by an aqueous solution comprising 100 volumes of aqueous aluminum phosphate and from 1 volume to 15 volumes of nitric acid having been cured at cold rolled sheet steel temperatures of from 90—130°C.

Compl. Specn. 11 pages.

Drg. Nil.

CLASS : 32-A; 62-C.

158644

Int. Cl. : C 09 b 33/00, 35/00.

**PROCESS FOR PREPARING WATER-SOLUBLE DIAZO COMPOUND.**

Applicant HOECHST AKTIENGESELLSCHAFT OF D-65929 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

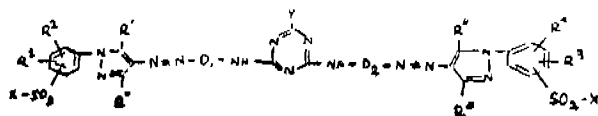
Inventors : 1. ERNST HOYER, 2. RUDOLF FASS.

Application No. 532/Cal/83 filed May 2, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 21 Claims

Process for preparing a water-soluble disazo compound of the formula (1) of the accompanying drawings



Formula 1

in which :

D<sub>1</sub> and D<sub>2</sub> are each a phenylene radical or a naphthylene radical which can each be substituted by one or two substituents selected from the group consisting of one chlorine atom, one bromine atom, two sulfo groups, two carboxyl groups, two alkyl groups of 1 to 4 carbon atoms and two alkoxy groups of 1 to 4 carbon atoms,

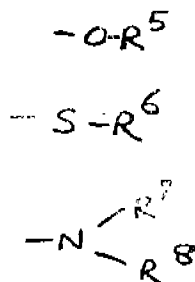
R' and R'' are each an amino group or a hydroxy group, R<sup>+</sup> and R\* are each a methyl group or a carboxy group or a carbalkoxy group of 2 to 5 carbon atoms, such as the carbethoxy group or the carbomethoxy group,

R<sup>1</sup> and R<sup>2</sup> are each a hydrogen atom, an alkyl group of 1 to 4 carbon atoms, an alkoxy group of 1 to 4 carbon atoms, a chlorine atom or a bromine atom,

R<sup>3</sup> and R<sup>4</sup> are each a hydrogen atom, an alkyl group of 1 to 4 carbon atoms, an alkoxy group of 1 to 4 carbon atoms or a chlorine atom,

X is a vinyl group or a β-sulfatoethyl, a β-thiosulfatoethyl or a β-chloroethyl group,

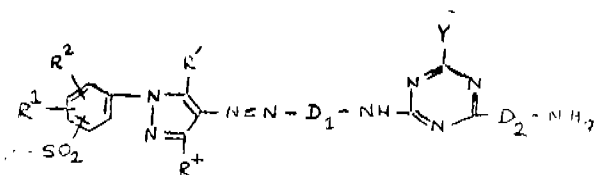
Y is a chlorine, fluorine or bromine atom or a sulfo group or a group of the formula (2a), (2b) or (2c) in which :



Formula 2

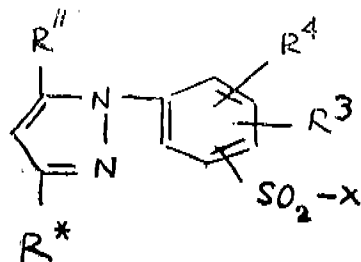
R<sup>5</sup> is a hydrogen atom, an optionally substituted aliphatic radical or an optionally substituted aryl radical, R<sup>6</sup> is an optionally substituted aliphatic radical or an optionally substituted aryl radical or an aromatic heterocyclic radical such as herein described R<sup>7</sup> is a hydrogen atom, an optionally substituted aliphatic radical or an optionally substituted cycloaliphatic radical,

R<sup>8</sup> is a hydrogen atom, an optionally substituted aliphatic radical or an optionally substituted aryl radical or R<sup>7</sup> and R<sup>8</sup>, together with the nitrogen atom, form a 5-, 6- or 7-membered saturated heterocyclic ring which optionally contains one or two further hetero-atoms, such as, for example, a nitrogen, oxygen or sulfur atom, where the moieties D<sub>1</sub>, D<sub>2</sub>, R<sup>+</sup>, R\*, R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, X, Y, R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup>, R<sup>8</sup>, R' and R'' can be identical to or different from one another, which comprises diazotizing an aminoazo compound of the formula (7)



Formula 3

in which D<sub>1</sub>, D<sub>2</sub>, R', R<sup>+</sup>, R\*, R<sup>1</sup>, R<sup>2</sup>, Y and X have the meanings mentioned above and coupling the diazotized product with a compound of the formula (4b) wherein R<sup>+</sup>, R'', R<sup>3</sup>, R<sup>4</sup> and X are as defined above.



Formula 4

Compl. Specn. 37 pages.

Drg. 21 sheets.

Class : 21-B & C.

158645

Int. Cl. : A 43 b 3/12, 13/28.

LADIES' SANDAL, OF EASY AND RAPID ASSEMBLAGE.

Applicant : SPLENDORPLAST S.p.A., OF NUMANA (ANCONA) ITALIEZONA INDUSTRIALE.

Inventor : 1. FERDINANDO BEZECOHERI.

Application No. 552/Cal/83 filed May 4, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims

A ladies' sandal, easy to assemble comprising a rigid injection molded plastic insert to be fixed to the bottom side of the insole, said insert comprising a stud projecting from its rear portion to support and center the actual heel of said sandal, said heel presenting a cavity matching said stud to allow an automatic centering of the heel which is first slipped on said stud and then fastened by means of a pressure pin passing through the heel from bottom to top and driven into a hole made available in said stud for this purpose.

Compl. Specn. 12 pages.

Drg. 2 sheets.

CLASS : 69-E.

158646

Int. Cl. : H 01 h 83/00.

A HIGH-VOLTAGE SWITCHING SYSTEM.

Applicant : BBC BROWN, BOVERI & COMPANY, LIMITED, OF CH-5401 BADEN, SWITZERLAND.

Inventors : 1. DR. LEOPOLD BLAHOUS, 2. GEORG KOPPL.

Application No. 556/Cal/83 filed May 4, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims

A high-voltage switching system comprising :

- nodes connected in form of a ring via closed switching points
- power connections connected to each of said nodes,
- current transformer determining the values of currents in each of said power connections,

- a central monitoring and control unit into which are entered and processed the values of said currents and from which triggering commands are output to each of said switching points,

wherein the breaking current of each of said switching points are limited after a short circuit has occurred at a first of said nodes in that the central monitoring and control unit comprises means for producing an opening command to one of said switching points between the power connections of which and said first node in each case at least a second and a third of said nodes is provided via which a component short circuit current is fed into said ring.

Compl. Specn. 7 pages.

Drg. 1 sheet.

CLASS : 39-K.

158647

Int. Cl. : C 01 b 17/76 + 17/68.

#### PROCESS OF PRODUCING SULFURIC ACID.

Applicants : (1) METALLGESELLSCHAFT AKTIENGESELLSCHAFT, REUTERWEG 14, D-6000 FRANKFURT AM MAIN, WEST GERMANY; (2) BAYER AKTIENGESELLSCHAFT, BAYERWERK, D-5090 LEVERKUSEN, WEST GERMANY.

Inventors : 1. KARL-HEINZ DORR, 2. HUGO GRIMM, 3. RUDOLF GERKEN, 4. GUNTER LAILACH.

Application No. 562/Cal/83 filed May 5, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 12 Claims

A process of producing sulfuric acid from SO<sub>2</sub>-containing gases which have been scrubbed, comprising a multistage catalytic reaction of SO<sub>2</sub> to SO<sub>3</sub>, an interstage absorption of the resulting SO<sub>3</sub> after one contact process stage, and an end absorption of the resulting SO<sub>3</sub> after the last contact process stage, wherein the said SO<sub>3</sub> containing humid gases having a water content which is not in excess of that corresponding to the water balance are dried with concentrated sulfuric acid before entering the first contact process stage, the water that has been absorbed by the dryer acid is transferred with the dryer acid to the absorber acid used to absorb SO<sub>3</sub>; absorber acid is recycled at a rate to the drying stage, the interstage SO<sub>3</sub> is dried out at elevated temperature and the contact process system is utilized, characterized in that the said SO<sub>2</sub>-containing gases are pre-dried with dilute sulfuric acid having a concentration of 40 to 80% by weight to remove part of the water content from the gases before they are dried with concentrated sulfuric acid, at least part of the water which has been absorbed by the pre-dryer acid is transferred with said acid to the absorber acid used to absorb SO<sub>3</sub> and absorber acid used to absorb SO<sub>3</sub> is received at a corresponding rate to the pre-dryer.

Compl. Specn. 27 pages.

Drg. 6 sheets.

CLASS 98-G.

158648

Int. Cl. : F28 c 3/00 + F28 d 13/00, 17/00

#### AN APPARATUS FOR RECOVERING HEAT FROM GAS CONTAINING MOLTEN COMPONENTS.

Applicant : A. AHLSTROM OSAKEYHTIO, AT SF-29600 NOORMARKKU, FINLAND.

Inventors : 1. ARI HALME, 2. SEPPO RUOTTU.

Application No. 643/Cal/83 filed May 23, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 1 Claim

An apparatus for recovering heat from gas containing molten components by bringing it into contact with the heat transfer surfaces of a heat exchanger, characterized by a particle separator downstream of the heat exchanger, a mixing channel upstream of the heat exchanger and means for controlling the flow of recirculated solid particles into the gas flowing through the mixing channel so as to drop the temperature of the gas below the eutectic temperature range of the molten components; said solid particles having been formed due to the cooling in the heat exchanger and separated from the gas in the particle separator; and, if desired, other particles such as sand being added to the recirculated solid particles.

Compl. Specn. 8 pages.

Drg. 1 sheet.

CLASS : 152-E.

158649

Int. Cl. C 08 f 29/00.

#### COMPOSITIONS OF ETHYLENE POLYMERS FOR THE MANUFACTURE OF FILMS-1.

Applicant : SOCIETE CHIMIQUE DES CHARBONNAGES S.A., OF TOUR AURORE-PLACE DES REFLETS, F-92080 PARIS 1A DEFENS-CEDEX NO. 5, FRANCE.

Inventor : 1. MARIUS HERT.

Application No. 656/Cal/83 filed May 25, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 14 claims

Composition comprising from 25 to 95% by weight of at least one free-radical ethylene polymer such as herein described and from 5 to 75% by weight of at least one copolymer of ethylene and  $\alpha$ -olefines containing at least 4 carbon atoms, with a specific gravity of between 0.905 and 0.940 and a melt index of between 0.4 and 3 dg/min, characterized in that the free-radical ethylene polymer has a melt index of between 0.15 and 3 dg/min.

Compl. Specn. 15 pages.

Drg. nil.

CLASS : 48A, C & 206E.

158650

#### "METHOD OF MANUFACTURING A PHOTOVOLTAIC SEMI-CONDUCTOR DEVICE."

Applicant : SOHIO COMMERCIAL DEVELOPMENT COMPANY, A DELAWARE CORPORATION, LOCATED AT MIDLAND BUILDING, CLEVELAND, OHIO 44115, UNITED STATES OF AMERICA AND BP PHOTOVOLTAICS LIMITED, A BRITISH CORPORATION, LOCATED AT MOOR LANE, LONDON, ENGLAND.

Inventor : BULENTM BASOL.

Application for Patent No. 171/Del/1982 filed on 2nd March, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

#### 3 claims

A method of manufacturing a photovoltaic semiconductor device of predetermined area having a plurality of layers of conductive and semiconductive materials, at least one of said layers including pinholes therein, said method comprising the steps of coating one side of said at least one layer over substantially the entire surface area thereof with a layer of insulating photoresist material so that said photoresist material fills at least substantially all of the pinholes in said at least one layer to a substantial extent, said at least one layer being substantially opaque to the light wavelength range, causing said photoresist material to cure; and exposing the other side of said at least one layer to the light wave length range to cause said photoresist material to cure whereby the

photoresist material in said pinholes is also caused to cure; dissolving the uncured portions of said layer of insulating photoresist; and depositing another layer selected from said plurality of layers on said at least one layer and the remaining cured photoresist.

Compl. Specn. 11 pages.

Drg. 1 sheet.

CLASS : 32 F1&2(a).

158651

Int. Class : C 07C 69/00.

"A PROCESS FOR THE PREPARATION OF O-CARBAMOYL SALICYLATES."

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

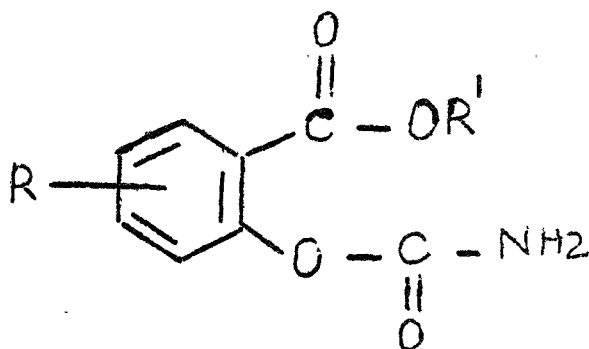
Inventors : AHMED KAMAL, PRALHAD BALVANT RAO SATTUR AND GOPALAKRISHNA THYAGARAJAN.

Application for Patent No. 178/DEL/1982 filed on 4th March, 1982.

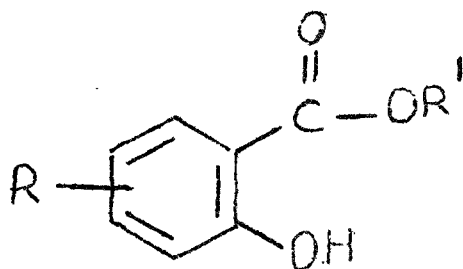
Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

5 claims

A process for preparation of O-carbamoyl salicylates of general formula III



Comprising reacting a salicylic acid ester of formula I



with a halogenosulfonyl isocyanate of formula II



in the presence of aprotic organic solvents wherein R represents H, halogen such as chloro, dichloro, bromo and iodo, alkyl or alkoxy radicals containing one to six carbon atoms or nitro groups, R' represents a straight or branched alkyl radical containing one to six carbon atoms or an aromatic radical containing one or more substituents such as halogens, straight or branched alkyl group containing one to 15 carbon atoms, alkoxy group containing one to six carbon atoms or nitro groups.

Compl. Specn. 7 pages. Drg. 1 sheet.

CLASS : 128B.

158652

Int. Class : A61f 5/03 & 5/34.

"AN ORTHOPEDIC WAISTCOAT ADAPTED TO RETAIN AND SUPPORT THE SHOULDER, THE SHOULDER GIRDLE AND THE UPPER LIMBS AND INTENDED TO BE EMPLOYED IN THE TREATMENT OF INJURIES TO SUCH AREAS OR LIMBS".

Applicant : MOHAMMED BERREHAIL, AN ALGERIAN CITIZEN OF IMMEUBLE ROYAL, LES DEUX ALPES, ISERE, FRANCE.

Inventor : MOHAMMED BERREHAIL.

Application for Patent No. 353/DEL/1982 filed on 10th May, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

23 claims

An orthopedic waistcoat adapted to retain and support the shoulder, the shoulder girdle and the upper limb, characterised in that it consists essentially of four integrated panels, the first designed to contain the rear section of the thorax and extended laterally into a second panel designed to contain the front section of the thorax, the axillary area and the front section of the shoulder and arm, which is in turn extended laterally into a third panel designed to contain the rear section of the shoulder and arm and to receive and be held in place by the aforesaid first panel, while the aforesaid second panel is itself extended over part of its lower section into a fourth panel designed to afford support to the fore-arm all the panels being provided on both faces with attachment means for progressively tightening and closing said waistcoat so that said waistcoat can be applied at choice to the left or the right by simple reversal.

Compl. Specn. 17 pages.

Drgs. 4 sheets.

CLASS : 29D [XLI(2)]; 67 C[LI(2)].

158653

Int. Class : H 04 d 15/00; G 01 d 9/00, 15/00.

"DISTURBANCE SIGNAL RECORDER".

Applicant : THOMSON-CSF, OF 173 BOULEVARD HAUSMANN, 75008 PARIS, FRANCE, A FRENCH COMPANY.

Inventors : CLAUDE VIALATTE AND FRANCIS BOUHELIER.

Application for Patent No. 491DEL/1982 filed on 30th June 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

9 claims

A disturbance signal recorder comprising :

—a fixed unit located at a point suitable for detecting a disturbance, said fixed unit having :

- processing signal means for continuously receiving input signals, and outputting corresponding digital signals;
- pretriggering memory means connected to said processing signal means for receiving and delaying said digital signals received from said processing signal means;
- disturbance detector means connected to said processing signal means for receiving said input signals, said disturbance detector means detecting which ones of said input signals are disturbance signals, said disturbance detector means outputting first and second control signals at the beginning of each detected disturbance signal and a third control signal at the end of each detected disturbance signal;

- (d) solid state buffer memory means connected to said pretriggering memory means for recording said ones; of said digital signals which have been detected to be disturbance signals by said disturbance detection means, said recording occurring in response to a record control signal;
- (e) programmable control means connected to said disturbance detector means for receiving said first and third control signals from said disturbance detector means and in response to said first control signal issuing said record control signal to said buffer memory means also connected to said programmable control means, and in response to said third control signal, said programmable control means issuing a power cut-off signal;
- (f) first power supply means connected to and continuously supplying power to said processing signal means, said pretriggering memory means, said disturbance detector means and said programmable control means; and
- (g) second power supply means connected to said disturbance detector means and said programmable control means, said second power supply means supplying power to said buffer memory means in response to said second control signal from said disturbance detector means and for cutting off power to said buffer memory means in response to said power cut-off signal from said programmable control means;

—a peripheral unit including a storage recording means for recording said disturbance signals recorded in said buffer memory means, and a detachable programming terminal, including a control display unit, for programming said programmable control means;

—and digital interface means for linking said fixed unit and said peripheral unit

wherein said programmable control means is connected to said digital interface means, said programmable control means reads said disturbance signals recorded in said buffer memory means and transmits said read disturbance signals through said digital interface means to said peripheral unit for recording in said storage recording means, and wherein said fixed unit comprises:

—a monitoring means continuously energized by said first power supply means and a recording means energized and deenergized by said second power supply means in response to said second and third control signals, respectively;

—said monitoring means including: said processing signal means which includes a matching circuit receiving said input signals which are analog and providing corresponding matched analog signals, and analog-digital conversion and multiplexing circuits for converting said matched analog signals and for multiplexing said digitally converted signals and said input signals which are digital, said digital input signals and said matched analog signals being applied to said disturbance detector means, said pretriggering memory means and said programmable control means; a time dating device connected between said disturbance detector means and said programmable control means for supplying a precise dating to each of said disturbance signals detected by said disturbance detector means; and said first power supply;

—said recording means including: said buffer memory; said digital interface means; and said second power supply.

Compl. Specn. 24 pages. Drgs. 3 sheets.

CLASS : 32 E [IX (i)]

158654

Int. Class : C 08 d 5/04.

"PROCESS FOR THE PRODUCTION OF HALOGENATED OLEFINICALLY UNSATURATED RUBBER".

Applicant : EXXON RESEARCH AND ENGINEERING COMPANY, A CORPORATION OF DELAWARE, UNITED STATES OF AMERICA, CARRYING ON BUSINESS AS A COMPANY FOR THE HOLDING OF PATENTS AND GRANTING LICENCES THEREUNDER AND TECHNICAL DEVELOPMENT AND RESEARCH WORK AT 200 PARK AVENUE, FLORHAM PARK, NEW JERSEY, UNITED STATES OF AMERICA.

Inventor : NEIL FREDERICK NEWMAN AND RONALD CHARLES KOWALSKI.

Application for Patent No. 663/DEL/1982 filed on 31st August 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

21 claims

A process for the production of halogenated olefinically unsaturated rubber which comprises delivering olefinically unsaturated rubber to a feed zone, subjecting said rubber in said feed zone to low shear and to a temperature and pressure sufficient to convert it into a cohesive conveyable rubber mass conveying, said rubber mass to a reaction zone, continuously halogenating said mass in said reaction zone with a halogenating agent such as herein described, subjecting said rubber mass and halogenating agent to vigorous mixing in said zone, transferring the mass of halogenated rubber to a neutralising zone, injecting into said zone one or more neutralising agents such as herein described to neutralise any residual unreacted halogenating agent and recovering in any known manner said halogenated olefinically unsaturated rubber.

Compl. Specn. 25 pages.

CLASS : 39 G.

158655

Int. Class : C01d—11/02.

"IMPROVEMENTS IN OR RELATING TO THE PREPARATION OF LITHIUM TETRA CHLOROALUMINATE".

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors : KALLUNKAL VISWANATHA PRASAD, RAMA TYER GANGADHARAN, PANAMATTATHU NARAYANAN NARAYANNAN AND HANDADY VENKATAKRISHNA UDUPA.

Application for Patent No. 669/DEL/1982 filed on 1st September 1982.

Complete specification left on 26th November, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office Branch, New Delhi-110005.

3 claims

An improved process for the preparation of lithium tetrachloro aluminate comprising heating lithium aluminium hydride at a temperature in the range of 120°C to 180°C in the presence of pure dry chlorine.

Provisional specification 3 pages.

Complete specification 5 pages.

A LIMITED NUMBER OF PRINTED COPIES OF THE UNDER NOTED SPECIFICATION ARE AVAILABLE FOR SALE FROM THE PATENT OFFICE, CALCUTTA AND ITS BRANCHES AT BOMBAY, MADRAS AND NEW DELHI AT TWO RUPEES PER COPY :—

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156776 156777 156779 156786 156789 156797 156798 156799  
156822 156837 156846 156850 156856 156860 156869 156884  
156886 156909 156965 156975 156976 156977 157054 157242

## COMMERCIAL WORKING OF PATENTED INVENTIONS

## CHEMICAL ENGG.

## LIST-I

The following patents in the field of Chemical Engineering Industry are not being commercially worked in India as admitted by the patentees in the statements filed by them under section 146(2) of Patents Act, 1970, in respect of calendar year 1984 generally on account of want of request for licences to work the patented inventions. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

Patent No.	Date of Patent	Name & Address of the Patentee	Title of the Invention
1	2	3	4
120343	14-3-1969	F. HOFFMANN-La-ROCHE & CO., 124/184, Granzaherstrasse, Basle, Switzerland.	Fungicidal compositions.
124545	22-12-1969	SNAMPROGETTI S.P.A. OF 16 corso Venezia, Milan, Italy.	Improvements in or relating to the production of urea.
125177	6-2-1970	ISHIHARA SANGYO KAISHA LTD. of No. 3-11, Edobori, 1-Chome, Nishi-ku- osaka, Japan.	A process for the production of a titanium dioxide concentrate.
125271	3-3-1969	SHERRITT GORDON MINES LIMITED, 2800 Commerce Court, West, Toronto, Ontario, Canada.	Process for treating low iron nickel ferrous ores.
125603	20-4-1972	PFIZER INC. 235, East 42nd Street, New York, State of New York, U.S.A.	Direct mono-esterification of aryl-malonic acids.
125991	30-3-1970	SNAMPROGETTI SPA. 16 Corso Venezia, Milan, Italy.	Purification of urea solutions.
126663	27-1-1971	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1, India.	Improvements in or relating to lacqueres for corrosion prevention.

1	2	3	4
127492	10-7-1970	WILHELM SCHELKMANN, 581, Witten, Crengeldangstr 85, German, Federal Republic	Process and device for vulcanization of pre-vulcanized treads or rings with normal or lighter profiles.
127626	20-7-1970	SNAMPROGETTI SPA, 16 Corso Venezia, Milan, Italy.	Process for the extraction of aromatic hydrocarbons.
127646	21-7-1970	Do.	Process for the separation of conjugated diolefins from mixtures containing the same.
127658	22-7-1970	Do.	Process for the extraction of aromatic hydrocarbons from mixtures of aromatic and aliphatic hydrocarbons.
128278	2-9-1970	Do.	Process for the production of ethylene oxide.
128542	22-9-1970	TEXACO DEVELOPMENT CORPORATION, 135, East 42nd Street New York, State of New York, 10017, U.S.A.	Improvements in or relating to the production of synthesis gases and fuel gases.
128907	20-10-1970	SNAMPROGETTI SPA, 16, Corso Venezia, Milan, Italy.	Process for the production of Urea.
129108	4-11-1970	COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH Rafi Marg, New Delhi-1, India.	Improvements in or relating to a process for the manufacture of weather-resistant, smokeless hard and moulded fuels from coke breeze for domestic and/or industrial purposes.
129162	10-11-1970	SHERITT GORDON MINES LIMITED 25, King Street, West Toronto, Ontario, Canada.	Method for extracting Nickel and Cobalt values from laterite ore.
129231	21-5-1971	TEXACO DEVELOPMENT CORPORATION 135 East 42nd Street New York, 10017 USA.	Process for the production of synthesis gas.
129331	20-11-1970	Do.	Production of reducing gas.
129349	28-7-1971	HINDUSTAN LEVER LIMITED 165-166 Backbay Reclamation, Bombay 20, India.	Process for preparing catalyst.
129493	4-12-1970	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. Carel Van Bylandtlaan 30 The Hague, The Netherlands.	Improved process for the production of a silica-titania catalyst suitable for use in liquid phase epoxidation of olefins with organic hydro-peroxides.
129855	6-1-1971	HINDUSTAN LEVER LIMITED 165-166, Backbay Reclamation, Bombay 20, India.	Extraction of tea and preparation of instant tea powder from the extract so obtained.
129856	6-1-1971	JOHNSON & JOHNSON 501, George Street, New Brunswick, New Jersey, U.S.A.	Conformable adhesive sheet.
130282	16-2-1971	FABWERKE HOECHST AG. VORMALS MEISTER LUSIUS & BRUNING 45 Bruningstrasse, Frankfurt Main, F.R.G.	Process for preparing water soluble monoazo dyestuffs.
130367	25-2-1971	FABWERKE HOECHST AG. VORMALS MEISTER LUSIUS & BRUNING 45, Bruningstrasse, Frankfurt/Main, F.R.G.	Metal complex compounds of the mono azo dyestuffs and process for their preparation.
130371	25-2-1971	DEUTSCHE GOLD-UND SILVER- SCHEIDEANSTALT VORMALS ROESSLER 9, Weissfranchenstrasse, Frankfurt (Main) F.R.G.	Calcium thioetate.
130379	25-2-1971	F.S. SMITH & CO. A/S 77 Vigersley Alle, DK-2500, Copenhagen Valby, Denmark.	Treatment of cement raw materials and plants for use therein.
130631	18-3-1971	METALLGESELLSCHAFT AG. ETC. 6 Frankfurt AM, Reuterweg 14, West Germany.	Process of removing hydrogen fluoride.
130719	25-3-1971	UNIVERSAL OIL PRODUCTS Ten UOP Plaza-Algonquin & Mt. Prospects Road, Des Plaines, Illinois, U.S.A.	Apparatus for reconditioning and reforming catalyst.
130800	30-3-1971	SNAMPROGETTI SPA 16 Coros Venezia, Milan Italy.	Process for the production of urea.

1	2	3	4
130891	7-4-1971	Universal Oil Products Ten Uop Plaza Algonquin, Mt. Prospect Roads, Desplaines, Illinois, U.S.A.	Lubricating oil base stock production.
131139	27-4-1971	Dunlop Holding Limited Dunlop house, Ryder, Street, St. James, London SW1, England.	Contact adhesives.
131458	22-5-1971	SNAPROGETTI SPA 16 corse Venezia, Milan, Italy.	Process for dehydrating ammonia synthesis gases.
131782	18-6-1971	Universal Oil Products Ten Uop Plaza-Algonquin, Mt. Prospect Roads, Des Plaines Illinois.	Black oil conversion process-initial operation procedure.
131913	29-6-1971	METALLGESELLSCHAFT AG. 16 Frankfurt/Am., Reuterweg 14, West Germany.	Process of producing aluminium fluoride.
131939	30-6-1971	FARBWERKE HOECHST AKTIENGESEL- LSCHAFT VORMALS, MEISTER LUCIUS & BRUNING. 45, Brunningstrasse, Frankfurt/Main, Federal Republic of Germany.	Process for preparing water soluble metalli- ferous disazo dyestuffs.
131968	2-7-1971	FARBWERKE HOECHST AKTIEN GESELLSCHAFT VORMALS, MEISTER LUCIUS & BRUNING. 45, Brunningstrasse, Frankfurt/Main Federal Republic of Germany.	Process for manufacturing novel water solu- ble monoazo dyestuffs.
132031	8-7-1971	Do.	Process for the manufacture of fast dyeings or printings on fibrous materials containing cellulose.
132545	16-8-1972	INDIAN EXPLOSIVES LTD. 34 Chowringhee, Calcutta-700071, Indian Public Limited Co.	Improved method and system for the pre- paration of thickened slurry explosives.
132648	24-8-1971	HOECHST AKTIENGESELLSCHAFT 45, Brunigetrasse, Frankfurt/Main, F.R.G.	Process for the preparation of monoazo pigments.
132766	3-9-1971	UNIVERSAL OIL PRODUCTS INC, Ten Uop Plaza-Algonquin & Mt. Prospect Roads, Des, Plaines, Illinois, U.S.A.	Improved hydrocarbon separation process.
132878	13-9-1971	UNION CARBIDE CORPORATION 170 Park Avenue New York State of New York 10017, U.S.A.	Process for separating normal paraffins from admixture with non-normal hydrocarbons.
132903	14-9-1971	J.H. FENNEE & CO. LTD. Marfleet, Hull, HU9 9SR, England.	A method of bonding a surface of poly vinyl chloride to a surface of Natural rubber or to a surface to a sulphur modified chloroprene elastomer.
132913	15-9-1971	UNIVERSAL OIL PRODUCTS 10 Uop plaza-Algonquin & Mt. Prospect Roads, Des, Plaines, Illinois, U.S.A.	Process and apparatus for catalytic cracking of hydrocarbons.
132943	17-9-1971	Do.	Process for separating para-xylene from a mixture of CS hydrocarbons.
133041	25-9-1971	L'AIR LIQUIDE SOCIETE ANONYME PUR L'ETUDE ET EXPLORATION DES PROCEDES GEORGE CLAUDE, 75, Quai D'Orse, 75 Paris (7eme) France.	Process for removing sulphur dioxide nitrogen oxide & sulphuric acid vapour impurities from industrial fumes.
133066	1-10-1971	BENILITE CORPORATION OF AMERICA 233 Broadway, New York, U.S.A.	Pre-leaching or reduction treatment in the beneficiation of titaniferous iron ores.
133139	6-10-1971	Ferbwerke Hoechst A.G. Vromals Meister Lucius 45 Bruningstrasse, Frankfurt/Main F.R.G.	Process for the manufacture of metal com- plex monoazo dyestuffs.
133172	7-10-1971	ETAT FRANCAISE, Mepresente Par Le Ministre de la, Defence Nationale of 4 Avenue, dela, porte d'Issy paris 150, France.	Improved process for the manufacture of phosgene.

1	2	3	4
133408	29-10-1971	UNION CARBIDE CORPORATION 270 Park Avenue New York, State of New York-10017, U.S.A.	Selective absorption gas separation process.
133677	19-11-1971	FARBWERKE HOECHST AKTIENGES- LLSCHAFT VORMALS MEISTER LUCIUS & BRUNING. 45 Bruningstrasse, Frankfurt/Main, Federal Republic of Germany.	Process for the manufacture of water soluble monoazo dyestuffs.
133711	23-11-1971	THE LUBRIZOL CORPORATION OF CLEAVELAND, OHIO, 44117. U.S.A.	Method of flocculating solids suspended in aqueous medium.
133734	25-11-1971	CIBA-GEIGY AG Klybeckstrasse 141, Basle, Switzerland.	Treatment of Water system for preventing scale formation.
133819	1-12-1971	FARBWERKE HOECHST AG VORMALS MEISTER LUCIUS & BRUNING, 45, Bruningstrasse, Frankfurt/Main, Federal Republic of Germany.	Process for manufacturing water soluble metal complex monoazodyestuffs.
133840	3-12-1971	Do.	Process for the production water soluble monoazo dyestuffs.
133928	13-12-1971	SHOWA DENKO KABUSHIKI KAISHA No. 34 shiba Miyu, Moto-cho, Tokyo, Japan.	Sintered agglomerates & method of pro- ducing the same.
133956	15-12-1971	SNAMPROGETTI SPA 16 Corso Venezia, Milan Italy.	Process for the recovery of aromatic hydro- carbons from mixtures containing the same.
133969	16-2-1972	Do.	Process for the recovery of isoprene from mixtures containing the same.
133997	18-12-1971	mitsui Petrochemical Industries LTD., 2-5, 3-Chome Kasumigaseki, Chiyoda-ku, Tokyo, Japan.	Improved process for producing terephthalic acid.
134107	28-12-1971	FARBWERKE HOECHST AKTIENGES- LLSCHAFT VORMALS MEISTER LUCIUS & BRUNING. 45, Bruningstrasse Frankfurt/Main, Federal Republic of Germany.	Process for the manufacture of Water soluble fibre reactive azo dyestuffs.
134135	30-12-1971	SNAMPROGETTI SPA 16 Corso Venezia, Milan Italy.	Process for separation of conjugated diole- fins from mixtures containing them.
134147	31-12-1971	SINLOIHI CO No. 38 Nishinoshimono-cho, Konoshana-ku, Osakashi Japan.	Process for preparation of coloured resin particles.
134151	31-12-1971	FARBWERKE HOECHST A.G. VORMALS MEISTER, LUCIUS & BRUNING, 45, Bruningstrasse, Frankfurt/Main, F.R.G.	Process for the preparation of basic oxazine dyestuffs.
134152	31-12-1971	Do.	Process for the preparation of water soluble reactive mono-azo dyestuffs.
134206	6-1-1973	INDIAN EXPLOSIVES LTD. 34 Chowringhee, Road, ICI House, Calcutta 16, West Bengal, India.	Inorganic oxidiser salt containing aqueous slurry type blasting composition containing a mixture of fuel gas & oxygen as novel sensitisers.
134208	6-1-1972	FARBWERKE HOECHST A.G. VORMALS MEISTER LUCIUS & BRUNING, 45, Bruningstrasse, Frankfurt/Main, Federal Republic of Germany.	Shaped article made of thermoplastic mold- ing compositions on the basis of polyoxy- methylenes and process for the manufacture thereof.
134299	17-1-1972	KNAPSACK AKTIENGESSELLSCHAFT OF KNAPSACK NEAR KOLN, FEDERAL REPUBLIC OF GERMANY.	Production of acrylonitrile & methacryloni- trile.
134431	13-1-1972	THE RUBBER RESEARCH INSTITUTE OF MALAYA erd mile, Ampang Road, Kuala Lumpur, Malaya.	Improvements in or relatint to the stabili- zation of natural rubber.
134733	24-2-1972	UNION CARBIDE CORPORATION 270 Park Avenue, New York, State of New York-10017, U.S.A.	Process for olefin separation.

1	2	3	4
134783	1-3-1972	SHINETSU CHEMICAL COMPANY 6-1- otemachi 2-chome, Chiyoda-ku, Tokyo, Japan.	Method for suspension-polymerizing vinyl chloride.
134860	7-3-1972	UNIVERSAL OIL PRODUCTS Ten Uop Plaza-Algonquin, Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Hydrocarbon separating process.
135013	21-3-1972	RHONE PROGIL RUE, Piccini, 75, Paris 160, France.	Method of producing phosphoric acid and calcium sulphate.
135139	3-4-1972	Do.	A process for bulk polymerizing vinyl chlo- ride or vinyl chloride & another monomer.
135365	23-5-1972	KNAPSACK AKTIENGESELLSCHAFT Knapsack near Koln, Federal Republic of Germany.	Process for the manufacture of acrylonitrile or methacrylonitrile.
135382	15-2-1971	SNAMPROGETTI S.P.A., 16 Corso, Venezia Milan, Italy.	Process for polymerizing a conjugated diene.
135383	15-2-1971	Do.	Process for preparing a polyimine of alu- minium.
135477	29-7-1972	UNIVERSAL OIL PRODUCTS Ten Uop Plaza Algonquin & Mt. Prospect Road, Des Plaines, Illinois, U.S.A.	Hydrocarbon separation process.
135496	27-6-1972	Do.	Improved process for conversion of alky- laromatic hydrocarbon to alkenyl aro- matic hydrocarbon.
135507	24-9-1971	UNION CARBIDE CORPORATION 270 Park Avenue, New York State of New York, U.S.A.	A process for improving the properties of ethylene. polymerisation catalysts.
135517	18-5-1972	HOECHST AKTIENGESELLSCHAFT 6230 Frankfurt/Main 80 F.R.G.	Process for the manufacture of an ammoxi- dation catalysts.
135634	6-6-1972	SOCIETE MINIERE ET METALURGIQUE DE PENARROYA, 1 Boulevard de vangirard, Paris, France.	Improved reactor for the production of lead oxide with high free lead content.
136639	2-8-1972	THE RUBBER RESEARCH INSTITUTE OF MALAYA, 3rd Mile Ampang Road, Kuala Lumpur, Malaya.	A method of removing protein from natural rubber.
135803	3-5-1972	UNIVERSAL OIL PRODUCTS COMPANY Ten Uop Plaza Algonquin, Mt. Prospect Roads, Des Plaines, Illinois, U.S.A.	Fluidized catalytic cracking or fluidized catalytic dehydrogenation-process.
135937	4-7-1972	FARBWERKE HOECHST AG. VORMALS MEISTER LUSIUS BRUNING 45, Bruningstrasse, Frankfurt/Main, F.R.G.	Process for the preparation of water soluble reactive xanthene dyestuffs.
136017	28-4-1972	AHMEDABAD TEXTILE INDUSTRY'S RESEARCH ASSOCIATION P.O. Polytechnic, Ahmedabad-15, India.	A process for preparation of granular alkali metals salts of carboxymethyl ethers of poly- saccharides.
136242	3-5-1972	FARBWERKE HOECHST AG. VORMALS MEISTER LUSIUS & BRUNING 45, Bruningstrasse, Frankfurt/Main, F.R.G.	Process for the preparation of water-soluble monoazo dyestuffs.
136262	17-8-1972	Do.	New water soluble monoazo-pyrazolone dye- stuffs and a process for preparing them.
136388	9-11-1972	Do.	Process for the preparation of water-insoluble monodyestuffs.
136395	29-9-1972	UNION CARBIDE CORPORATION 270 Park Avenue, New York State of New York-11017 U.S.A.	Reduced mercury-containing zinc alkaline cells.
136668	21-6-1972	HOECHST AKTIENGESELLSCHAFT Frankfurt/Main 80, F.R.G.	Dyestuff dispersions.

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136863	24-5-1972	NORTON COMPANY 1 New Bond Street Worcester, State of Massachusetts U.S.A.	A method of making alumina-Zirconia abra- sive materials.
136864	1-6-1972	ETAT FRANCAISE 12 Quai Henri IV, Paris.	A method of preparing a propergol.
136956	18-8-1972	ETAT FRANCAISE 12 Quai Henri IV, 75 Paris 4 eme, France.	Ignition powder.
137184	4-10-1972	UDDEHOLMS AKTIEBOLAG Udeholm, Sweden.	Metallurgical process.
137364	4-10-1971	THE LUBRIZOL CORPORATION P.O. BOX 03057, Euclid Station, Cleveland, Ohio-44117, U.S.A.	Process for the preparation of an oil-soluble composition.
137818	4-11-1972	UNIVERSAL OIL PRODUCTS COMPANY Ten Uop Plaza Algonquin & Mt. Prospect Roads, Desplaines, Illinois U.S.A.	Conversion of asphaltene containing charge stock.
137894	24-11-1972	METALLURGICAL PROCESS LTD. Austral House, Basinghall Avenue, F.C. 2 in the City of London, ENGLAND.	A method of producing zinc vapour of cad- mium vapour.
137913	11-7-1972	SOCIETE NATIONALE DES'POUDRES ET EXPLOSIES, 12, Quai Henri IV, cedex 04, 75181 Paris, France.	A process for the recovery of nitrocellulose from the filtrate obtained after the nitration of cellulose and an apparatus therefor.
138025	22-1-1974	IMPERIAL CHEMICAL COMPANY LTD. Imperial Chemical House, Mill Bank London S.W. 1 England.	Explosive fuse cord.
138036	13-8-1973	BETHLEHEM STEEL CORPORATION 701 East Third Street, Bethlehem, Pennsylva- nia, U.S.A.	Method of treating ferrous strand by hot dip coating procedure.
138167	1-12-1972	UNIVERSAL OIL PRODUCTS INC. Ten Uop Plaza Algoquin & Mt-prospect Road, Des Plaines, Illinois U.S.A.	A method for reforming of hydrocarbons.
138202	25-1-1972	UNION CARBIDE CANADA LTD. Eglinton Ave East, Toronto, Ontario, Canada.	Process of producing a fibre forming poly- amide.
138238	6-12-1972	SOCIETE NATIONALE DES PUUDRES ET EXPLOSII'S 12 Quai Henri IV, Cedex 04 75181, Paris, France.	A propellant powder composition and black propellant fuel moulded from such compo- sition.
138239	10-1-1973	SHIN NIHON KAGAKU KOGYO KABUSHIKI KAISHA 1 25-1, Hama-dori, Dojima, Kita-ku, Osaka-shik, Osaka-fu, Japan.	Method of producing magnesia refractory graines.
138391	23-11-1972	STEETLEY (MFG) LTD. Gate Ford Mill Workshop, Nottinghamshire, England.	Process for making magnesia.
138449	9-1-1973	UNILEVER LTD. Univever House, Black Friars, London F.C. 4, ENGLAND.	A process for the preparation of black tea from green or unfermented tea.
138559	2-11-1972	HOECHST AKTIENGESSELLSCHAFT 45, Bruning Strasse, Frankfurt, Main Federal Republic of Germany.	Process for preparing novel monoazo reactive dyestuffs.
138632	20-12-1972	NORTON COMPANY 1, New Bond Street, Worcester, State of Massachusetts U.S.A.	Method of producing abrasive.
138686	25-5-1973	SOLVAY & CIE Z 33 Rue de Prince Albert B-1050, Brussels, Belgium.	Process for the polymerization of olefins.
138705	28-9-1973	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. Carel Van Bylandtlaan 30, The Hague, The Netherlands.	Process & apparatus for producing gas by partial combustion and carburetting said gas.

1	2	3	4
138862	12-12-1972	HOECHST AKTIENGESELLSCHAFT 6230, Frankfurt, Main 80, F.R.G.	Process for the preparation of new Water soluble reactive azo dyestuffs.
138883	12-12-1972	Do.	Process for preparing novel water soluble reactive azodyestuffs.
138884	12-12-1972	Do.	Process for the preparation of new water soluble reactive dyestuffs.
138885	12-12-1972	Do.	Process for the preparation of novel water soluble reactive azodyestuffs.
138889	1-5-1973	Do.	Process for preparing water soluble azo compounds.
138894	27-6-1973	SANDVIT AKTIEBOLAG FACK S-81101 Sandviken 1, Sweden	Coated hard metal body.
138928	15-4-1973	HINDUSTAN LEVER LTD. Hindustan Lever House, 165-166 Backbay Reclamation Bombay-20, Maharashtra, India.	Cosmetic skin moisturising composition.
139109	8-5-1973	DR. C OTTO & COMP. G.m.b.H. Christrasse 9 Postfach 1849/1850, 463 Bochum W. Germany.	A gas collecting device for a coke oven battery
139118	27-1-1973	LONE STAR STEEL COMPANY 2209 W. Mockingbird Lane at Roper Dallas, Texas, U.S.A.	Process for the removal of particulate matter and acidic gases from carrier gases.
139182	21-11-1973	SNAMPROGETTI S.P.A. 16, Coros Venezia Milan Italy.	Process for removing vinyl aromatic hydrocarbons.
139206	6-8-1973	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ BG. Carel van Bylandtlaan 30, The Hague, The Netherlands.	Process for the production of hydrogen rich gas from carbon monoxide and hydrogen containing gases.
139208	19-4-1973	SNAMPROGETTI SPA 16, Coros Venezia, Milan, Italy.	Purification of a solution of Urea.
139216	28-1-1973	Do.	Process for producing a luminium chloro-hydroxides.
139273	3-3-1973	SOLVAY & CIE COMPANY Rue de Prince Albert 33, B-1050 Brussels Belgium.	Process for the stereospecific polymerization of alpha-olefins.
139293	13-2-1974	INDIAN EXPLOSIVES LTD. I.C.I. House 34, Chowringhee Road, Calcutta-16, West Bengal India.	Sensitised dry blasting composition and their method of preparation.
139321	19-7-1973	HOECHST AKTIENGESELLSCHAFT 6230 Frankfurt/Main F.R.G.	Process for the preparation of novel water soluble mono azo dyestuffs.
139383	26-6-1973	UNILEVER LTD. Unilever House, Blackfriars London E.C. 4, ENGLAND.	A process for the preparation of composite tea product.
139432	19-11-1973	SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V. Carel Van Bylandtlaan 30, The Hague, The Netherlands.	A process for the preparation of ethylene oxide
139455	25-5-1973	UNIVERSAL OIL PRODUCTS COMPANY Ten UOP Plaza Algonquin & Mt prospect Roads, Des Plaines, Illinois, U.S.A.	Fluidized catalysts regeneration process.
139458	16-6-1973	ČESKOSLOVENSKÁ AKADEMIE VED No. 3 Narodni Prognoc 1, Czechoslovakia	Process for producing powdery hydrophillic filters.
139465	20-3-1974	SNAMPROGETTI SPA 16, Coros, Venezia, Milan, Italy.	Process for the production of cellulose bodies and cellulose filaments incorporating enzymes.
139571	21-9-1973	BETHLEHEM STEEL CORPORATION 701 EAST Third Street Bethlehem, Pennsylvania U.S.A.	Corrosion resistant aluminium zinc coating and method of making.

1	2	3	4
139619	19-1-1974	THE GOODYEAR TIRE AND RUBBER CO. 1144 East Market Street, Akron Ohio, U.S.A.	A process for coagulating synthetic latices.
139721	9-1-1973	HOECHST AKTIENGESELLSCHAFT 6230, Frankfurt/Main, F.R.G.	Process for preparing water soluble reactive dyestuffs.
139722	28-2-1973	SNAMPROGETTI SPA 16, Corso, Venezia, Milan, Italy.	Process for producing aluminium chloro-hydroxides.
139729	6-9-1973	IMPERIAL CHEMICAL INDUSTRIES LTD. Imperial Chemical House, Mill Bank, London S.W. 1, England.	Explosive fuse cord and method of manufacturing the same.
139804	24-1-1973	Commonwealth scientific and Industrial Research Organisation, Limestone Avenue, Can Campbell Australian Capital Territory, Commonwealth of Australia.	A process for beneficiation of titaniferrous ores to produce titanium dioxide.
139834	16-11-1973	F.L. SMIDTH & CO A/S 77, Vigerslev Alle, Copenhagen-Valby, Denmark.	Improvements relating to the calcination of of pulverous material and plant for effecting the same.
139841	13-4-1973	UNION CARBIDE CORPORATION 270 Park Avenue, New York 10017 New York U.S.A.	Process for extracting metal valves from spent hydrosulfurization catalysts.
139895	19-3-1973	PERSONAL PRODUCTS COMPANY Mill Town, New Jersey, U.S.A.	Method of making water insoluble fluid absorptive and retentive materials from cellulose.
139924	26-6-1973	SNAMPROGETTI SPA 16, Coros Venezia, Milan Italy.	Water desalination apparatus.
139988	26-10-1973	SOCIETE FRANCAISE DELECTRO-METALLURGIE SOFREM 10, Rue, du, General Foy Parid 8 Eme, FRANCE	Improved process for thermal production of magnesium.

CHEMICAL ENGG.  
LIST—I

COMMERCIAL WORKING OF PATENTED INVENTIONS

The following patents in the field of chemical Engineering Industry are not being commercially worked in India as admitted by the patentees in the statements filed by them under section 146(2) of Patents Act, 1970, in respect of calender year 1985 generally on account of want of request for licences to work the patented inventions. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

Patent No.	Date of Patent	Name & Address of the Patentee	Title of the Invention
1	2	3	4
136656	12-5-1972	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, India.	Urethane vernish based on castor oil as a top coat for patent leathers.
136899	20-6-1972	Do.	A process for the production of acrylic copolymer emulsion as a base coat resin for finishing of leathers.
139966	16-5-1974	Do.	A process for the production of domestic/ industrial fuel briquette utilising middlings/sinks.
143659	17-10-1975	Do.	Improvements in or relating to preparation of Pigment grade calcium chromate.
143743	3-8-1979	Do.	A method for the preparation of iron oxide, chromium oxide catalyst by precipitation from homogeneous solutions.
143745	4-6-1976	Do.	Preparation of synthetic iron oxide pigments inventions.

1	2	3	4
145213	11-10-1976	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, India.	Process for preparation of pure potassium nitrate.
146232	19-10-1977	Do.	A process for the preparation of Inorganic green pigment.
147705	23-12-1977	Do.	Improved process for the preparation of urea nitrate.
148231	25-9-1978	Do.	Improved process for the preparation of sodium stearyl-2-lactylate.
148657	2-5-1981	Do.	Process for the preparation potassium carnallite (KCl, MgCl <sub>2</sub> · 6H <sub>2</sub> O) 99% pure.
148658	2-5-1981	Do.	Preparation of potassium nitrate from the mother-liquor obtained after the separation of potassium carnallite from neutralised by-product mixed acid.
149935	5-9-1979	Do.	Improved process for the preparation of pure Beta Ionone.
150086	9-10-1979	Do.	Improved two-stage process for the preparation of 4-4' diamino-stilbene 2-2' disulphonic acid.
150241	5-9-1979	Do.	Process for the production of total alkaloids of the roots of Catharanthus roseus G. Don.
150420	30-12-1978	Do.	Detondorcop Sensitive explosive composition.
150565	24-11-1978	Do.	A process for the preparation of 1:2-dihydro 2-oxo (1 HO quinoxaline and its alkali metal salts from 1:2, 3:4 tetrahydr-2OH (1H)-quinoxaline.
152041	18-2-1980	Do.	Process for the preparation of corrosion inhibiting additive composition for steel pipes of heat exchangers.
153190	10-9-1980	Do.	An improved process for sweetening of petroleum Distillates using Phthalocyanine catalysts with Promoters.
153227	23-12-1980	Do.	Composite Silicon refractory product.
153246	4-12-1980	Do.	A process for the preparation of an improved enzyme bate for use in leather formation.
153336	14-8-1980	Do.	A process for the preparation of Ir Cis, 2, 2-dimethyl-3 (2-oxopropyl) cyclopropane carboxylic acid and its methyl esters.
153384	2-2-1981	Do.	A process for the preparation of commercial grade vanadium Pentoxide and by-products sodium sulphate from vanadium sludge of alumina industry.
153415	6-3-1981	Do.	A process for the isolation of a fraction from neem extract enriched with active principles exhibiting oviposition deterrent and anti-feedant activity against potato tuber moth.
153460	1-12-1980	Do.	Process for the preparation of -cyano-3-phenoxy-benzyl-IR-Cis-2, 2-dimethyl-3 2-chloroprop-1-ethyl cyclopropane carboxylate, a new insecticide belonging to synthetic pyrethroids group.
153587	12-2-1981	Do.	Process for the preparation of a novel controlled release mosquito larvicide.
153634	12-12-1980	Do.	An improved process for the manufacture of high alpha cellulose pulp from naturally occurring cellulosic materials.

1	2	3	4
153636	11-2-1980	COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-1, India	Process for the synthesis of substituted thiocarboxamides.
153762	27-2-1980	Do.	Process for the preparation of improved cervical dilators.
153841	11-5-1981	Do.	A process for the preparation of aluminium, calcium and ferrous and the like metal valves from high ash washery tailings, fly ash and alike coal waste materials.
153877	18-3-1980	Do.	A process for the preparation of improved polymeric acrylic resin emulsion for use as Binders for pigments in leather industry.
153878	14-6-1981	Do.	A new process for the preparation of 2, 2-dimethyl 3-(2-oxopropyl)-cyclopropane acetic acid, an important intermediate in the synthesis of chrysanthemic acid synthetic pyrethroids insecticides.
154003	5-4-1980	Do.	An improved process for chemical colouring of aluminium and its alloys substrate.
153300	17-10-1979	PFIZER INCORPORATED 235, East 42nd Street, New York, State of New York U.S.A.	Process for preparing dextrorotatory trans 2 substituted 5-aryl-2, 3, 4, 4a, 5, 9b hexahydro 1H Pyrido [4, 3b] Indoles.
153685	11-2-1980	Do.	Process for the preparation of penicillanic acid 1, tadioxide and esters therefor.
153822	13-3-1980	Do.	A process for preparing a stable, injectable solution of an oxytetracycline chelate.
154371	22-4-1980	Do.	Process for the preparation of novel penicillin derivatives.
154408	7-6-1980	Do.	Process for preparing a magnetically stable powder.
154554	16-8-1980	Do.	A process for the preparation of pyridines and pyrimidines.
154557	20-8-1980	Do.	A process for the preparation of a penam 1-dioxide.
154693	15-9-1980	Do.	Process for deodorizing L-aspartyl-L-Phenylalanine alkyl esters.
154694	15-9-1980	Do.	Process for the preparation of L-aspartic acid N-thiocarboxyanhydride.
154767	31-10-1980	Do.	Process for preparation of derivatives of 6-B-hydroxyalkyl penicillanic acid.
153791	12-2-1980	SOCIETE D'ETUDES DE PRODUITS CHIMIQUES, 4, Rue Theodule Ribot, 75017 Paris, France.	A process for preparing 2-isopropylamino Pyrimidine hydroxy derivatives.
154066	7-4-1980	Do.	Process for the preparation of isopropylaminopyrimidine hydroxy derivatives (mineral base route)
154067	7-4-1980	Do.	Process for the preparation of isopropylamino pyrimid hydroxy derivatives (hydrogen reduction base)
154370	22-4-1980	Do.	A process for the preparation of halogeno derivatives of isopropylamino pyrimidine.
154407	4-6-1980	Do.	Preparation of 2-isopropylamino pyrimidine.
154499	4-6-1980	Do.	Synthesis of 2-isopropylamino-pyrimidine.
153048	20-8-1979	UNION CARBIDE CORPORATION 270 Park Avenue, New York 10017, U.S.A.	Process and an apparatus for producing low purity oxygen.

1	2	3	4
153626	21-1-1980	UNINE CARBIDE CORPORATION 270 Park Avenue, New York 10017, U.S.A.	A method for refining steel in a refractory refractory lined vessel.
153376	29-11-1979	Do.	Process for the recovery of hydrogen and nitrogen from gas mixtures.
153387	6-11-1979	UNION CARBIDE CORPORATION 270 Park Avenue, New York 10017, U.S.A.	A process for refining molten steel.
154014	26-3-1980	INTEROX, 35 Rue Du Prince Albert, B-1050 Brussels, Belgium.	Process for the preparation of coated seeds.
154920	13-10-1980	Do.	Process for reclaiming waste paper.
150333	12-8-1974	HALCON RESEARCH & DEVELOPMENT CORPORATION, 2 Park Avenue, New York- 10016 U.S.A.	A process for the preparation of a carboxy- late ester.
154336	10-6-1980	Do.	A process for the dehydration of ethanol to ethylene.
154316	2-7-1980	ANDRE BUZAS, 25, Route De Versailles, 91570, Bievreo, France.	Process for the preparation of new isoqui- noline derivatives.
154317	2-7-1980	Do.	A process for the preparation of papaverine carbanion.
147590	19-12-1977	DR. BECK & CO. AG., 2000 Hamburg 28, Grossmannstrasse 105, F.R.G.	A process for the preparation of an aqueous electrically-insulating.
154556	19-8-1980	Do.	Process for the manufacture of insulated winding wires through extrusion of thermo- plastics.
153421	5-12-1979	EXXON RESEARCH AND ENGINEER- ING COMPANY, 200 Park Avenue, Florham Park, New Jersey, U.S.A.	Process for converting hydrophilic water containing regenerated cellulose membranes to membranes useful for separating organic liquids.
153466	19-12-1979	Do.	A process for preparing supported Nickel- Cobalt-Silica coprecipitated catalyst.
150726	21-2-1979	STAMICARBON B.V. Geleen, The Netherlands.	Process for the preparation of cyclohexanol and cyclohexanone
154749	22-9-1980	CENTRE DE RECHERCHES METALLUR- GIQUES : CENTRUM VOOR RESEARCH IN DE METALLURGIE, 47 Rue Montoyer, 1040 Brussels, Belgium.	Method of continous heat treatment of steel sheet.
154849	16-9-1980	TOYO ENGINEERING CORPORATION 3-5, Kasumigaseki 3-Home, Chiyoda-ku Tokyo, Japan.	A spouted bed granulation process.
154306	22-4-1980	ARBED S.A., Avenue de la Liberte, Luxembourg.	A process for refining a metal bath by a stream of oxygen supplied thereover.
152721	1-8-1969	HAMBRO MACHINERY LTD. Chandos Street, Netherfield Nottingham England.	An apparatus for conditioning leaf material and a plant incorporating the same.
153363	20-11-1979	SMITHS INDUSTRIES PUBLIC LIMITED CO., 765 Fl Finchley Road, London NW 11 8DS, England.	Apparatus for detecting the presence of liquid or other flowable substance and a detecto system including said apprattus.
153385	6-11-1979	SOUTHWIRE COMPANY 126 Fertilla Street, Carrollton	Method for preparing a combustible gaseous fuel mixture for a furnace and appraratus therefor.
153422	5-12-1979	SOCIETE NATIONALE DES POUDRES ET EXPLOSIFS, 12 Quai Henri IV, 75181 Paris Cedex 04, France.	Combustible objects, in particular combustible cartridge cases which are heat resistant to steel ifnition.
153426	14-12-1979	OLGA MEYER & RAINER MEYER Rheinstrasse 64, 7580 Butil F.R.G.	A method for producing a protective coating for cathodically protected surfaces.

1	2	3	4
153550	4-1-1980	ALUMINIUM COMPANY OF AMERICA Alcoa Building, Pittsburgh, Pennsy Lohnia U.S.A.	A process for the precipitation and recovery of $Al(OH)_3$ .
153562	4-1-1980	SOLVAY & CIE 33 Rue du Prince Albert, B-1050, Brussels, Belgium.	Process for the manufacture of complex gra- nules catalyst containing active protein sub- stances.
153589	16-1-1980	AVCO CORPORATION 1275 King Street, Greenwich, State of Connecticut, U.S.A.	A coal gasification process comprising the reaction of feed stocks consisting essentially of steam, carbon and elemental sulphur to produce carbon monoxide and hydrogen sulfide.
153679	29-1-1980	CPC INTERNATIONAL INC. Intesnational Plaza, Englewood Cliffs, New Jersey.	Process & installation for the continuous manufacture of starch adhesives.
153751	19-2-1980	BIOGEN N.V. 24, Handelskade, Willemstad, Curacao, Netherlands.	Method for producing an type interferon.
153779	18-1-1980	THE GENERAL TIRE & RUBBER COMPANY One General Street, Akron ohio 44329, U.S.A.	An improved tire containing reinforcing elements having a bright steel surfaces bonded to a vulcanized rubber by a rubber free adhesive composition.
149477	17-7-1979	ION EXCHANGE (INDIA) LIMITED Tiecicon House, Dr. E. Mose Road, Bombay- 400011, Maharashtra, India.	A process for detoxification of formaldehyde in a formaldehyde-bearing effluent by conver- ting it to non-toxic formose.

## RENEWAL FEES PAID

135318 137602 138868 139469 139540 140115 140268 140290  
 140401 140461 140694 140782 140787 141005 141835 141919  
 142158 142171 142249 142307 142326 142351 142352 142566  
 142732 142741 142750 143005 143097 143203 143265 143334  
 143416 143486 143602 143659 143874 144237 144503 144663  
 144664 144730 144928 145314 145860 145932 146043 146168  
 146500 146566 146745 146802 146879 146937 146946 146972  
 146996 146997 147005 147020 147071 147083 147149 147165  
 147172 147181 147182 147317 147324 147386 147490 147577  
 147622 147647 147680 147697 147698 147699 147700 147705  
 147740 147890 147948 148058 148094 148198 148260 148406  
 148445 148526 148527 148538 148673 148681 148682 148683  
 148758 148785 148786 148787 148788 148789 148790 148791  
 148792 148793 148794 148795 148942 148964 149086 149191  
 149255 149275 149298 149321 149364 149431 149536 149688  
 149689 149704 149772 149831 149834 149935 149996 150033  
 150034 150048 150169 150190 150191 150192 150194 150195  
 150245 150246 150281 150339 150352 150408 150412 150418  
 150455 150475 150477 150567 150585 150676 150764 150973  
 151028 151109 151241 151300 151318 151319 151416 151546  
 151714 151734 151926 151944 152276 152280 152338 152578  
 152723 152773 152720 152997 153031 153041 153053 153062  
 153116 153229 153240 153302 153314 153330 153331 153332  
 153356 153362 153365 153366 153368 153373 153375 153383  
 153386 153391 153393 153395 153396 153399 153422 153426  
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 153737 153777 153778 153797 153801 153872 154008 154072  
 154129 154290 154299 154302 154318 154319 154324 154369  
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154630 154639 154642 154661 154669 154673 154738 154770  
 154772 154792 154802 154809 154820 154828 154853 154855  
 154857 154868 154905 155009 155029 155030 155031 155032  
 155038 155075 155090 155091 155094 155106 155107 155108  
 155109 155111 155112 155113 155116 155131 155145 155164  
 155174 155177 155188 155202 155203 155206 155207 155230  
 155241 155265 155273 155274 155281 155322 155383 155499  
 155531 155586 155591 155594 155595 155597 155598 155604  
 155618 155619 155620 155621 155622 155635 155636 155638  
 155639 155664 155693 155694 155695 155714 155717 155718  
 155719 155720 155721 155757 155783 155785 155786 155808  
 155809 155815 155838 155859 155863 155866 155883 155887  
 155892 155893 155894 155904 155909 155911 155922 155924  
 155928 155930 155941 155944 155964 155975 155996 156020  
 156125 166248 16261 156384 156425 156502 156514 156524  
 156655 156667 156669

## REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class. 1. No. 157236. F. E. Net Works, 308, S. V. Road, Kevni, Andheri West Bombay-400 058, Maharashtra, India, and Indian Partnership Firm. "Strainer-9th July, 1986.

Class. 1. No. 157271. Bikrom Stainless Products, Mungekar Industrial Estate, Goregaon East, Bombay-400 063, Maharashtra, India, Indian Sole Proprietary Firm. "Spoon". 17th July, 1986.

- Class. 1. No. 157043. Wajidsons Exports, Wajid House, Prince Road, Moradabad, Uttar Pradesh, an Indian Partnership firm. "Container". 8th May, 1986.
- Class. 1. No. 157256. Shrikant Digambar Gogate, Indian National of D/448, Mahindra & Mahindra Colony, Shri Krishna Nagar, Borivali (East), Bombay-400 066, State of Maharashtra, India. "Graters". 14th July, 1986.
- Class. 1. No. 157332. Kirloskar Brothers Limited, a Company incorporated under the provisions of Indian Companies Act, at Udyog Bhavan, Tilak Road, Pune 411 002, Maharashtra State, India. "Foot Valve". 13th August, 1986.
- Class. 3. Nos. 157264, 157265, 157266. Eagle Flask Private Limited, under the Indian Companies Act, at Eagle Estate, Talegaon-410 507, District-Pune, State of Maharashtra, India. "Flask". 17th July, 1986.
- Class. 3. No. 157141. Velwyn Television Limited, 4, Padmanabha Nagar, Adyar, Madras 600 020, Tamil Nadu, India, a company duly organised and existing under the laws of the Union of India. "Three band Radio Stereo Cassette". 11th June, 1986.
- Class. 3. No. 157610. S.K. Products of 9, Jagbandhu Boral Lane, Calcutta-700 007, West Bengal, India, an Indian Proprietary Firm. "Ball Point Pen". 29th October, 1986.
- Class. 3. No. 157202. Shingar Cosmetics Private Limited having its registered office at 102, "C" Block, C. R. Agarwal Market, Shyam Kamal Building, Tejpal Road, Vile-Parle (East), Bombay-400 057, Maharashtra, India, an Indian Company incorporated under the Companies Act, 1956. "Lip Stick Container". 26th June, 1986.
- Class. 3. No. 157211. Wimco Pen Company, 11, Mehta Industrial Estate, 1st floor, I. B. Patel Road, Goregaon (East), Bombay-400 063, Maharashtra, India, an Indian Partnership Firm. "Container". 30th June, 1986.
- Class. 3. No. 157212. Wimco Pen Company, 11, Mehta Industrial Estate, 1st floor, I. B. Patel Road, Goregaon (East), Bombay-400 063, Maharashtra, India, an Indian Partnership Firm. "Container". 30th June, 1986.
- Class. 3. No. 157213. Wimco Pen Company, 11, Mehta Industrial Estate, 1st floor, I. B. Patel Road, Goregaon (East), Bombay-400 063, Maharashtra, India, an Indian Partnership Firm. "Lunch Carrier". 30th June, 1986.
- Class. 3. No. 157215. F. E. Net Works, 308, S. V. Road, Kevni, Andheri West Bombay-400 058, Maharashtra, India, an Indian Partnership Firm. "Strainer". 30th June, 1986.
- Class. 3. No. 157216. F. E. Net Works, 308, S. V. Road, Kevni, Andheri West Bombay-400 058, Maharashtra, India, an Indian Partnership Firm. "Strainer". Cum-water filter". 30th June, 1986.
- Class. 3. No. 157217. F. E. Net Works, 308, S. V. Road, Kevni, Andheri West Bombay-400 058, Maharashtra, India, an Indian Partnership Firm. "Funnel". 30th June, 1986.
- Class. 3. No. 157333. Kirloskar Brothers Limited (an Indian Company under the Act) at Udyog Bhavan, Tilak Road, Pune-411 002, State of Maharashtra, India. "Diaphragm". 13th August, 1986.
- Class. 3. No. 157334. Geoffery Pinto and Vineet Arora, both are Indian Nationals of 105, Beach Haven II, Juhu Tara Road, Bombay-400 049, State of Maharashtra, India. "Visor". 13th August, 1986.
- Class. 3. No. 157489. Consolidated Instrumentation Private Limited, a Private Limited company incorporated under the Indian Companies Act, having its office at 108, United Industrial Estate, Mogal Lane, Mahim, Bombay-400 016, State of Maharashtra, India. "Cabinet for Computer Data Display Monitor". 30th September, 1986.
- Class. 3. Nos. 157348, 157349. The Goodyear Tyre & Rubber Company, a corporation organised under the laws of the State of Ohio, with offices at 1144 East Market Street, Akron, Ohio 44316-0001, United States of America. "Tyre For A Vehicle Wheel". 19th August, 1986.
- Class. 3. No. 157222. Crystal Plastics & Metallizing Private Limited, Sanghi House, Palkhi Galli, Off Veer Savarkar Marg, Prabhadevi, Bombay-400 025, Maharashtra, India, a Private limited company duly registered and incorporated under the Indian Companies Act, 1956. "Comb". 2nd July, 1986.
- Class. 3. No. 157444. Britannia Industries Limited of 5/1A, Hungerford Street, Calcutta-700 017, West Bengal, India, a Company incorporated under the Companies Act, 1913. "Container". 11th September, 1986.
- Class. 3. No. 156980. Megha Enterprises, a Partnership firm of H-75, Kirti Nagar, New Delhi-110015. "Seat for Tricycle". 23rd April, 1986.
- Class. 4. No. 157268. Panikassery Kumaran Sreenivasan of Architects India, Architects and Engineers, 5/1125, Sherien Buildings, Wynad Road, Calicut-673006, Kerala State, India, Indian National. "Hollow Clay Blocks". 17th July, 1986.
- Class. 4. No. 157294. Jagdale Exports, (a registered Partnership firm) of 36 Sampangi Tank Road, Bangalore-560 027, State of Karnataka, India, "Bottle". 29th July, 1986.

*Extn. of Copyright for the Second period of five years.*

Nos. 153161, 153162, 153167, 153168, 153169....Class-I

R. A. ACHARYA  
Controller General of Patents, Designs  
and Trade Marks

